CATALOG

MECHANICAL CONNECTORS

Blackburn®

ENGINEERED
TO OUTRUN



Blackburn® mechanical connectors are cast, forged or formed from copper or dual-rated aluminum to offer an extensive variety of UL listed and CSA certified solutions for your electrical connectivity applications. They’re easily installed without special tools, saving you time and labor.

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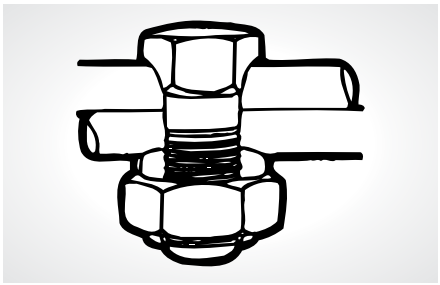
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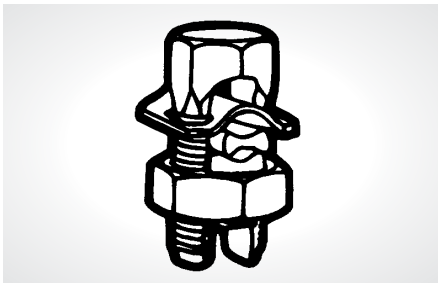
Overview

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Overview	06

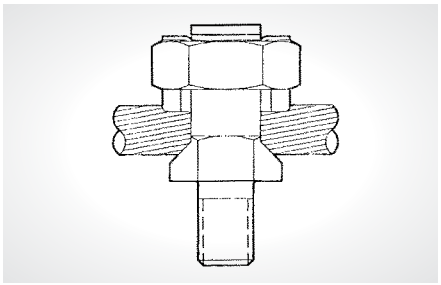
OVERVIEW



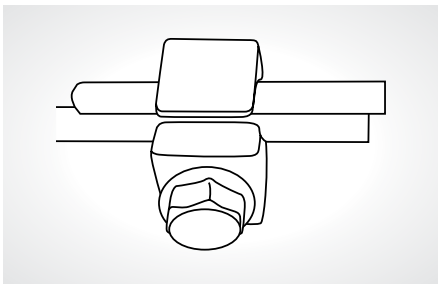
01 Copper split-bolt connectors
See pages 10–12
Type H, HPS, HPW



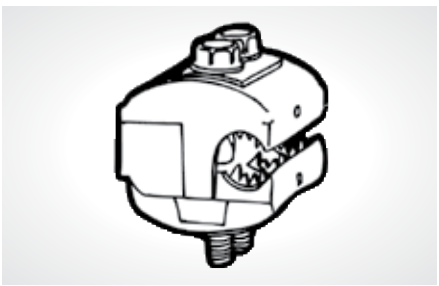
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Type APS, AAW, CA



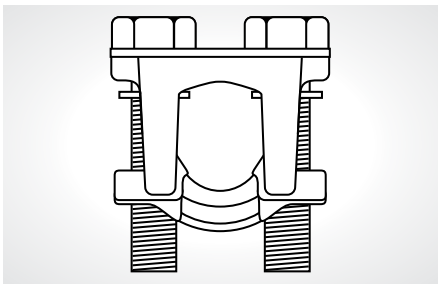
03 Service post connectors
See pages 15–16
Type SP



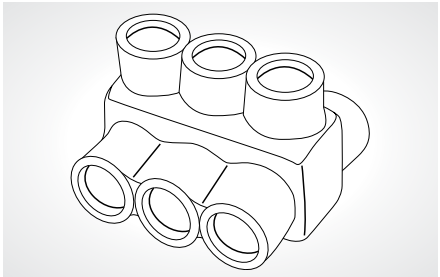
04 ViceLock
See page 20
ViceLock™



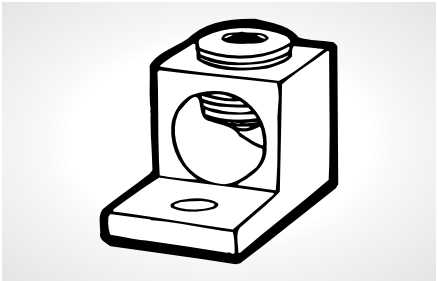
05 Insulation piercing connectors
See page 21
Type IPC



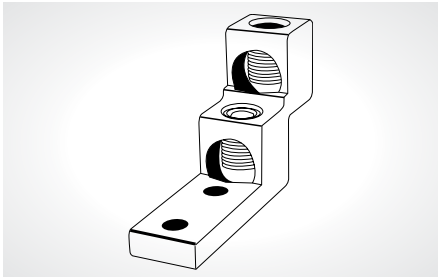
06 Two-bolt connectors
See pages 24–25
Type 2B, 2BX, 2BW, 2BPW



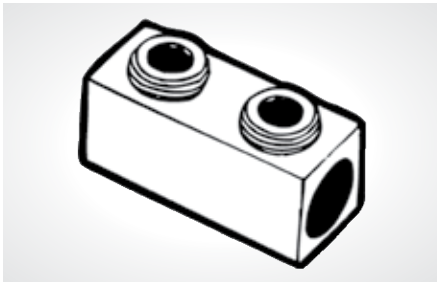
07 CSB and AMT connectors
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Insulated multi-tap



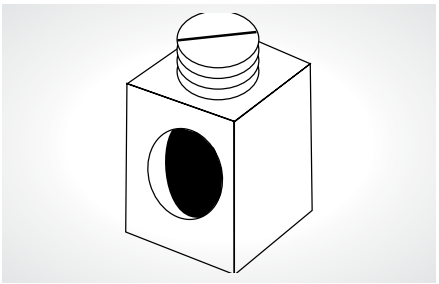
08 Dual-rated mechanical connectors
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Type ADR



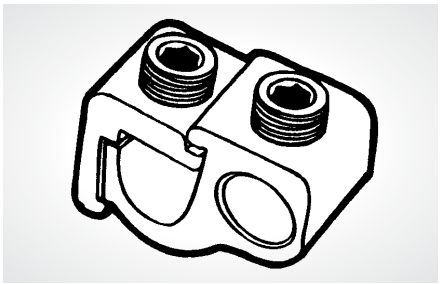
09 Dual-rated mechanical connectors
See pages 43–44
Type ASL



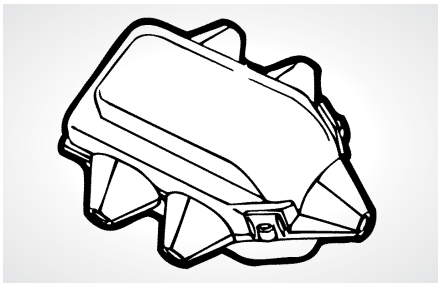
10 Splicer reducer
See page 44
Type ASR



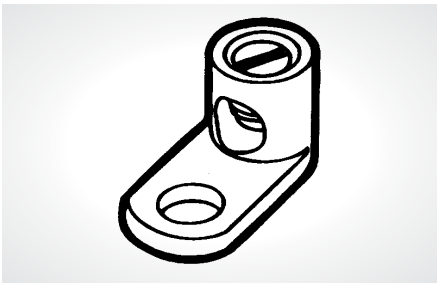
11 Rectangular connectors
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Type BX



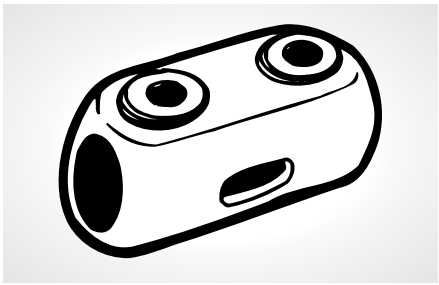
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Type GP, GT



13 Insulating covers
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Type TC



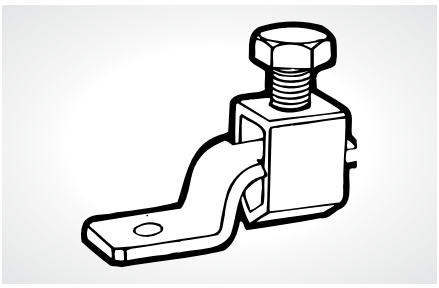
14 Copper mechanical connectors
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Type L, TL



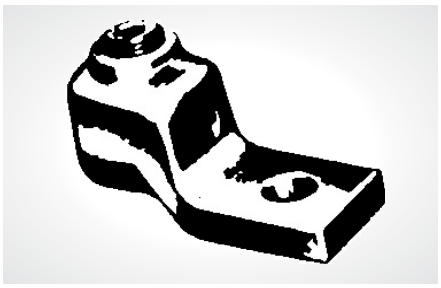
15 Copper splice
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Type S



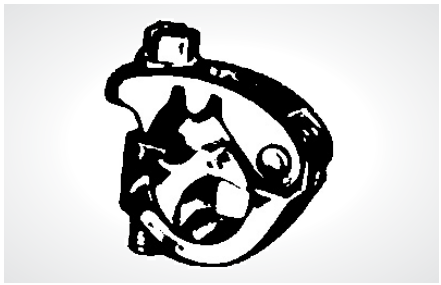
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Tap

02

Split-bolt connectors

Split-bolt connectors	
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Split-bolt connectors

Type H – High-strength split-bolt connectors



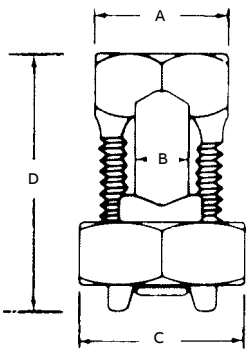
For copper-to-copper connections.

- Bolt and nut of high-strength corrosion-resistant bronze alloy
- Pressure bar is copper through 40H, copper alloy for 350 kcmil and above
- Bolt and nut of hex design up to 350 kcmil
- Tested and listed to UL 486C, UL 467 for grounding and for direct burial through cat. no. 40H

TYPE H – HIGH-STRENGTH SPLIT-BOLT CONNECTORS

	Conductor range (AWG or kcmil)		Dimensions (in.)			
Cat. no.	Range for equal main and tap	Min. tap with one max. main	A	B	C	D
9H	10 str.–12 sol.	14 sol.	3/8	0.146	1/2	25/32
8H	8 str.–10 sol.	14 sol.	3/8	0.146	1/2	25/32
8H3*	8 str.–12 sol.	16 str.	3/8	0.146	1/2	29/32
6H	6 sol.–8 sol.	14 sol.	15/32	0.170	21/32	31/32
6H3*	6 sol.–10 sol.	16 str.	15/32	0.170	21/32	1 1/8
4H	4 sol.–8 sol.	14 sol.	17/32	0.235	23/32	1 1/16
4H3*	4 sol.–8 sol.	16 str.	17/32	0.235	23/32	1 9/32
3H	3 sol.–8 sol.	16 str.	17/32	0.235	23/32	1 1/16
3H3*	4 str.–8 sol.	16 str.	17/32	0.235	23/32	1 9/32
2H	2 sol.–6 sol.	14 sol.	19/32	0.271	25/32	1 1/4
2H3*	2 sol.–6 sol.	14 sol.	19/32	0.271	25/32	1 15/32
1H	2 str.–6 sol.	14 sol.	11/16	0.330	7/8	1 11/32
1H3**	2 str.–6 sol.	14 sol.	11/16	0.330	7/8	1 5/8
10H	1/0 str.–4 sol.	14 sol.	3/4	0.385	15/16	1 19/32
20H	2/0 str.–2 sol.	14 sol.	7/8	0.443	1 1/16	1 13/16
30H	4/0 str.–2 sol.	6 sol.	1	0.580	1 5/16	2 5/32
40H	250 kcmil–1 str.	8 sol.	1	0.580	1 5/16	2 5/32
350M	350 kcmil–250 kcmil	1/0 str.	15/16	0.717	1 21/32	2 11/16
500M	500 kcmil–400 kcmil	2/0 str.	1 1/2	0.842	1 7/8	3 1/32
750M	750 kcmil–600 kcmil	4/0 str.	1 15/16	1.029	2 1/4	3 21/32
1000M	1000 kcmil–800 kcmil	4/0 str.	2 1/4	1.185	2 17/32	4 1/32

Diagram



* Will accommodate three wires of maximum size.
** Will accommodate three #2 stranded wires.
The H3 bolts are not UL listed or CSA certified.
UL recognizes solid and stranded conductor configurations for sizes #8 and smaller and stranded configurations only for sizes #6 and larger.

Split-bolt connectors

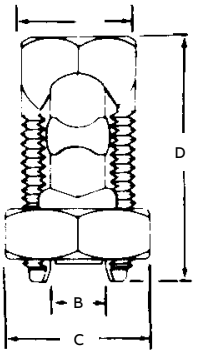
Type HPS – Plated split-bolt connectors with spacer



For use on copper, aluminum and ACSR conductors.

- Bolt and pressure bar of copper alloy, completely tin plated for corrosion resistance
- Contoured spacer of electrolytic copper through 4/0 AWG, bronze alloy for 350 kcmil and above – all tin plated
- Most connectors are UL listed and CSA certified for copper conductor only
- Blackburn® Contax® paste recommended when used on aluminum conductor

TYPE HPS – PLATED SPLIT-BOLT CONNECTORS WITH SPACER

		Conductor range (AWG or kcmil)						
		Range for equal main and tap	Range for equal main and tap	Min. tap with one max. main	Dimensions (in.)			
	Cat. no.	ACSR		Copper or aluminum	A	B	C	D
Diagram	9HPS	–	10 str.–12 sol.	12 sol.	3/8	0.146	1/2	29/32
	8HPS	–	8 str.–12 sol.	12 sol.	3/8	0.146	1/2	29/32
	6HPS	8	6 sol.–12 sol.	12 sol.	15/32	0.170	21/32	1 1/8
	4HPS	6–8	4 sol.–12 sol.	12 sol.	17/32	0.235	23/32	1 9/32
	2HPS	4–8	2 sol.–8 sol.	8 sol.	19/32	0.271	25/32	1 15/32
	1HPS	2–8	1 str.–8 sol.	8 sol.	11/16	0.330	7/8	1 5/8
	10HPS	1–6	1/0 str.–6 sol.	6 sol.	3/4	0.385	15/16	1 13/16
	20HPS	1/0–6	2/0 str.–6 str.	6 sol.	7/8	0.443	1 1/16	2 1/16
	40HPS	4/0–4	4/0 str.–4 sol.	4 sol.	1	0.580	1 5/16	2 15/32
	350HPS	266.8–1/0	350 kcmil–1/0 str.	2 sol.	1 5/16	0.717	1 21/32	2 11/16
	500HPS*	397.5–1/0	500 kcmil–1/0 str.	1/0 str.	1 1/2	0.842	1 7/8	3 1/32
	750HPS*	666.6–4/0	750 kcmil–4/0 str.	2/0 str.	1 15/16	1.029	2 1/4	3 21/32
	1000HPS*	900–477	1000 kcmil–500 kcmil	4/0 str.	2 1/4	1.185	2 17/32	4 1/32

* Not CSA certified. UL 486A.

Split-bolt connectors

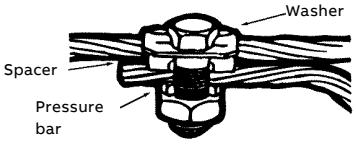
Type HPW and Type APS



For combinations of copper, aluminum and ACSR conductors.

- Bolt and pressure bar of high-strength copper alloy, completely tin plated
- Spacer and washer of electrolytic copper through 4/0 AWG, bronze alloy 350 kcmil and above – all tin plated
- Contoured spacer and bellmouth washer distribute pressure over large area of conductor
- Large contoured spacer provides wide separation between copper and aluminum conductors
- Blackburn® Contax® paste recommended when used with aluminum conductor

TYPE HPW – PLATED SPLIT-BOLT CONNECTORS WITH SPACER AND WASHER

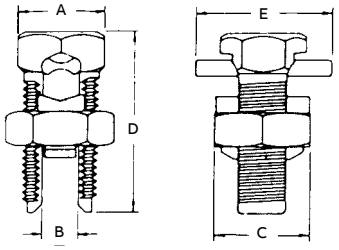
		Conductor range (AWG)						
		Range for equal main and tap	Range for equal main and tap	Min. tap with one max. main	Dimensions (in.)			
	Cat. no.	ACSR	Copper or aluminum		A	B	C	D
Diagram	6HPW	8	6 sol.–12 sol.	12 sol.	15/32	0.170	21/32	1 1/8
	4HPW	6–8	4 sol.–12 sol.	12 sol.	17/32	0.235	23/32	1 9/32
	2HPW	4–8	2 sol.–8 sol.	8 sol.	19/32	0.271	25/32	1 15/32
	1HPW	2–8	1 str.–8 sol.	8 sol.	11/16	0.330	7/8	1 5/8
	10HPW	1–6	1/0 str.–6 sol.	6 sol.	3/4	0.385	15/16	1 13/16
	20HPW	1/0–6	2/0 str.–6 sol.	6 sol.	7/8	0.443	11/16	2 1/16
	40HPW	4/0–4	4/0 str.–4 sol.	4 sol.	1	0.580	15/16	2 15/32



Accommodates all aluminum and copper conductor combinations.

- Six bolts cover range from #10 to 4/0 AWG
- Install with standard wrenches
- Corrosion-resistant tin-plated aluminum
- Tested and listed to UL 486B, 90 °C requirements

TYPE APS – ALUMINUM DUAL-RATED SPLIT-BOLT CONNECTORS

		Conductor range (AWG or kcmil)					Dimensions (in.)
	Cat. no.	equal main and tap	A	B	C	D	E
Diagrams	APS06	6–10 str.	17/32	0.21	23/32	1.27	1 1/4
	APS04	4–10 str.	19/32	0.27	25/32	1.48	1 1/4
	APS02	2–8 str.	11/16	0.33	7/8	1.63	1 1/4
	APS11	1/0–4 str.	7/8	0.44	1 1/8	2.07	1 1/2
	APS21	2/0–4 str.	7/8	0.44	1 1/8	2.07	1 1/2
	APS41	4/0–2 str.	1 1/8	0.54	1 1/2	2.47	1.55
	APS350*	350 kcmil–4 str.	1 7/16	0.70	1 11/16	3.36	2 1/4
	APS500*	500 kcmil–2 str.	1 11/16	0.84	2	3.62	2 5/8

* Square head design not CSA certified

Split-bolt connectors

Type AAW and Type CA

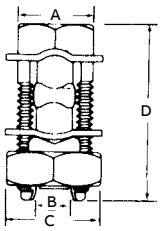


For all-aluminum applications.

- Bolt, nut, pressure bar and contoured spacer made of aluminum alloy
- Large contoured spacer provides wide separation
- Nut anodized to prevent thread galling
- Blackburn® Contax® paste recommended when used on aluminum conductor

TYPE AAW – ALUMINUM SPLIT-BOLT CONNECTORS WITH SPACER AND WASHERS

		Conductor range (AWG)			Dimensions (in.)			
		Range for equal main and tap	Range for equal main and tap	Min. tap with one max. main				
	Cat. no.	ACSR	Aluminum	–	A	B	C	D
Diagram	6AAW	6–8	4 sol.–8 sol.	10 sol.	17/32	0.236	23/32	1 9/32
	4AAW	4–8	2 sol.–8 sol.	8 sol.	19/32	0.272	25/32	1 15/32
	2AAW	2–8	1 str.–8 sol.	8 sol.	11/16	0.330	7/8	1 5/8
	1AAW	1–4	1/0 str.–2 sol.	4 sol.	7/8	0.443	1 1/8	2 1/16
	10AAW	1/0–4	2/0 str.–2 sol.	4 sol.	7/8	0.443	1 1/8	2 1/16
	40AAW	4/0–4	4/0 str.–4 sol.	4 sol.	1	0.580	1 1/4	2 15/32



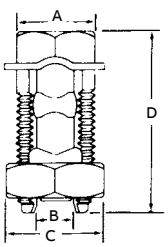


Contoured spacer and bell-mouth washer distribute pressure over large area of conductor.

- Bolt, nut and washer made of high-strength aluminum alloy
- Pressure bar and contoured spacer made of electrolytic copper
- Spacer is completely tin plated
- Bolt and nut are anodized to prevent seizing of threads and reduce galvanic corrosion when in contact with copper conductor
- Blackburn Contax paste recommended with this connector

TYPE CA – ALUMINUM SPLIT-BOLT CONNECTORS WITH SPACER AND WASHER

		Conductor range (AWG)		Dimensions (in.)			
		Range for equal main and tap	Min. tap with one max. main				
	Cat. no.		Copper or aluminum	A	B	C	D
Diagram	6CA	4 sol.–6 sol.	4 sol.–12 sol.	17/32	0.236	23/32	1 9/32
	4CA	2 sol.–4 sol.	2 sol.–10 sol.	19/32	0.272	25/32	1 15/32
	2CA	1 str.–4 sol.	1 str.–8 sol.	11/16	0.330	7/8	1 5/8
	1CA	1/0 str.–2 sol.	1/0 str.–6 sol.	7/8	0.443	1 1/8	2 1/16
	10CA	2/0 str.–2 sol.	2/0 str.–6 sol.	7/8	0.443	1 1/8	2 1/16
	40CA	4/0 str.–2/0 sol.	4/0 str.–4 sol.	1	0.580	1 1/4	2 15/32



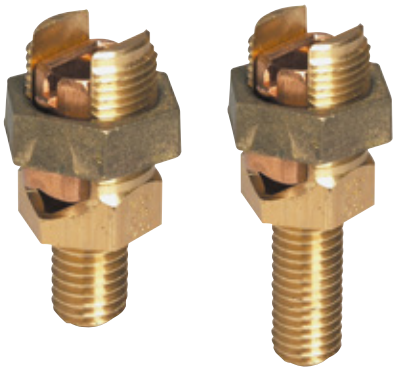
03

Service post connectors

Service post connectors	
Single- and double-conductor service post connectors, short stud and long stud	16

Service post connectors

For grounding of steel structures, fence posts or transformers using one or two cables.



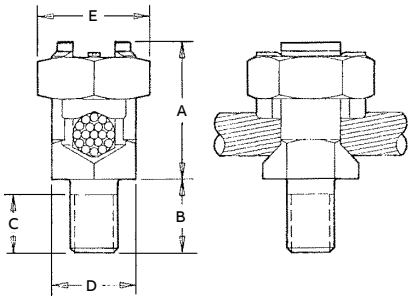
- For copper-to-copper connections
- For tapping one or two cables from bus bar
- Hex design bolts machined from high-conductivity bronze alloy
- Nuts and pressure bars cold-formed from high-strength copper or copper alloy
- Available in sizes for #12–500 kcmil stranded and #12–#2 solid copper conductor
- Available in both single- and double-conductor versions
- UL 486A and UL 467 listed

Blackburn® service post connectors are designed for applications including steel structure, fence post or transformer grounding involving one or two cables. They can also be used to tap one or two cables from bus bar.

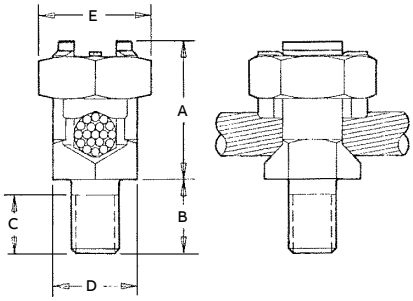
Bolts used in the service post connectors are machined from high-conductivity bronze alloy while the nuts are cold-formed from high strength, corrosion-resistant copper alloy. Pressure bars are copper through 4/0 AWG size, while copper alloy is used for 350 kcmil size and above.

Bolts and nuts are of the traditional Blackburn hex design for easy installation.

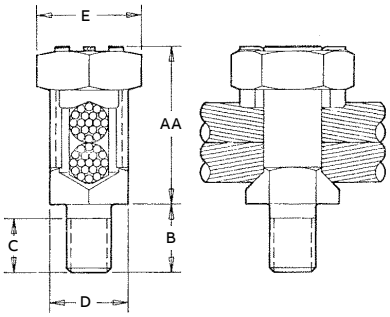
Dimensions



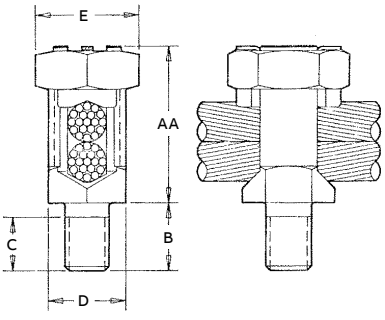
01 Single-conductor short stud (SP-SS)



03 Single-conductor long stud (SP-SL)



02 Double-conductor short stud (SP-DS)



04 Double-conductor long stud (SP-DL)

Service post connectors

Single- and double-conductor service post connectors, short stud and long stud

SINGLE- AND DOUBLE-CONDUCTOR SERVICE POST CONNECTORS, SHORT STUD

Cat. no.		Conductor range AWG (mm²) Stranded		Solid		Diameter range (in.)	Stud size	Dimensions (in.)					
SP-SS	SP-DS	Max.	Min.	Max.	Min.			A	AA	B	C	D	E
SP0SS	SP0DS	8 (6)	12 (4)	8 (10)	12 (4)	0.146–0.081 –	¼–20 x ½	11/16	13/16	½	55/64	15/32	½
SP1SS	SP1DS	7 (10)	10 (6)	6 (10)	10 (6)	0.164–0.102 –	¼–20 x ½	13/16	31/32	½	55/64	15/32	21/32
SP2SS	SP2DS	5 (16)	10 (6)	4 –	10 –	0.206–0.102 –	5/16–18 x 5/8	15/16	1⅛	5/8	53/64	17/32	23/32
SP3SS	SP3DS	3 (25)	10 (6)	2 –	10 –	0.26–0.102 –	⅜–16 x 5/8	½	1¼	5/8	61/64	5/8	25/32
SP4SS	SP4DS	1 (35)	8 (10)	2 –	8 –	0.332–0.129 –	⅜–16 x 5/8	11/16	1⅜	5/8	61/64	11/16	7/8
SP5SS	SP5DS	1/0 (50)	2 (35)	1/0 –	2 –	0.373–0.258 –	½–13 x ¾	1¼	1 19/32	¾	1 5/64	¾	15/16
SP6SS	SP6DS	2/0 (50)	2 (35)	2/0 –	2 –	0.419–0.258 –	½–13 x ¾	1 13/32	1 13/16	¾	1 5/64	7/8	1 1/16
SP8SS	SP8DS	4/0 (95)	2 (35)	4/0 –	1 –	0.528–0.289 –	5/8–11 x 1	1 9/16	2 1/16	1	1 19/64	1	1 5/16
SP9SS	SP9DS	350 (150)	1/0 (50)	– –	– –	0.681–0.373 –	5/8–11 x 1	2	2¾	1¼	1 19/64	1 5/16	1 11/16
SP10SS	SP10DS	500 (240	3/0 (95)	– –	– –	0.814–0.47 –	¾–10 x 1¼	2¼	3⅛	1¾	1 31/64	1½	1⅞

SINGLE- AND DOUBLE-CONDUCTOR SERVICE POST CONNECTORS, LONG STUD

Cat no.		Conductor range AWG (mm²) Stranded		Solid		Diameter range (in.)	Stud size	Dimensions (in.)					
SP-SL	SP-DL	Max.	Min.	Max.	Min.			A	AA	B	C	D	E
SP0SL	SP0DL	8 (6)	12 (4)	8 (10)	12 (4)	0.146–0.081 –	¼–20 x 1	11/16	13/16	1	55/64	15/32	½
SP1SL	SP1DL	7 (10)	10 (6)	6 (10)	10 (6)	0.164–0.102 –	¼–20 x 1	13/16	31/32	1	55/64	15/32	21/32
SP2SL	SP2DL	5 (16)	10 (6)	4 –	10 –	0.206–0.102 –	5/16–18 x 1	15/16	1⅛	1	53/64	17/32	23/32
SP3SL	SP3DL	3 (25)	10 (6)	2 –	10 –	0.26–0.102 –	⅜–16 x 1⅛	1	1¼	1⅛	61/64	5/8	25/32
SP4SL	SP4DL	1 (35)	8 (10)	2 –	8 –	0.332–0.129 –	⅜–16 x 1⅛	1 1/16	1⅜	1⅛	61/64	11/16	7/8
SP5SL	SP5DL	1/0 (50)	2 (35)	1/0 –	2 –	0.373–0.258 –	½–13 x 1¼	1¼	1 19/32	1¼	1 5/64	¾	15/16
SP6SL	SP6DL	2/0 (50)	2 (35)	2/0 –	2 –	0.419–0.258 –	½–13 x 1¼	1 13/32	1 13/16	1¼	1 5/64	7/8	1 1/16
SP8SL	SP8DL	4/0 (95)	2 (35)	4/0 –	1 –	0.528–0.289 –	5/8–11 x 1½	1 9/16	2 1/16	1½	1 19/64	1	1 5/16
SP9SL	SP9DL	350 (150)	1/0 (50)	– –	– –	0.681–0.373 –	5/8–11 x 1½	2	2¾	1½	1 19/64	1 5/16	1 11/16
SP10SL	SP10DL	500 (240)	3/0 (95)	– –	– –	0.814–0.47 –	¾–10 x 1¾	2¼	3⅛	1½	1 31/64	1½	1⅞

04

Parallel-groove and insulation-piercing connectors

Parallel-groove connectors	
Blackburn® bronze Vicelock® connectors	20

Insulation-piercing connectors	
Type IPC – Talon insulation-piercing connectors	21

Parallel-groove connectors

Blackburn® bronze Vicelock® connectors



Create a superior electrical connection – while saving time and money.

- Offer superior electrical performance
- Make a permanent connection
- Vibration-resistant
- Install quickly and easily with no need for special or heavy tools
- Can be installed with live line tools
- V-grooves enable easy conductor alignment
- Simple to install without cross-threading
- Full thread engagement increases bolt strength
- High-pressure/torque ratio ensures a low electrical resistance connection
- Helps reduce inventory by accepting a wide range of conductors

Specifications

- Silicon bronze material (CDA956000) for higher yield strength
- Large sizes include stainless steel hardware
- Bellcore approved

Typical applications

- Distribution loads
- Service bonding
- Tap connections
- Ground connections
- Also has grounding capability with a variety of cable tray, channel and strut applications

BLACKBURN BRONZE VICELOCK CONNECTORS

	2 Conductors wire range*			Inner	Master	Competitor cross ref.	
Cat. no.	Max.	Min.	Decimal (in.)	ctn. qty.	ctn. qty.	Fargo	Reliable
VGC68	#6 sol.	#10 sol.	0.162–0.101	50	250	GC-5006	BVC-6
VGC68SH	#6 sol.	#10 sol.	0.162–0.101	50	250	GC-5006SH	–
VGC44	#4 str.	#8 sol.	0.232–0.128	50	250	GC-5004	BVC-4
VGC23	#2 sol.	#6 sol.	0.286–0.162	50	250	GC-5002	BVC-2
VGC12	#2 str.	#5 sol.	0.320–0.181	50	250	GC-5002S	BVC-2S
VGC2010	1/0 str.	#4 sol.	0.390–0.204	50	250	GC-5020	BVC-20
VGC3020	2/0 str.	#3 sol.	0.438–0.229	25	125	GC-5020S	BVC-20S
VGC4040	4/0 str.	#1 sol.	0.552–0.289	25	125	GC-5040	BVC-40

* Wire range indicates each connector's ability to accommodate two wires of the same size shown in the "Max." or "Min." columns.

Insulation-piercing connectors

Type IPC – Talon insulation-piercing connectors



No need to strip conductor insulation or use tape after installation.

- For copper-to-copper, copper-to-aluminum and aluminum-to-aluminum applications (insulated conductor only)
- Performs as splice or tap for non-tension applications up to 600 V, depending on size of connector
- Self-insulated for hot line applications
- Six sizes cover range from #10–500 kcmil
- UL 486B listed AL9CU (90 °C rated)

TYPE IPC – TALON INSULATION-PIERCING CONNECTORS

Diagrams	Cat. no.	Al or Cu conductor range AWG or kcmil/mm² Main	Al or Cu conductor range AWG or kcmil/mm² Tap	No. bolts	Fig.	Dimensions (in.) W	H	L
	IPC1102*	1/0–8 50–6	2–8 35–6	1	1	29/16	2	1 17/32
	IPC4111	4/0–1/0 95–50	1/0–6 50–16	2	2	2 1/2	3	1 19/32
	IPC4141	4/0–1/0 95–50	4/0–1/0 95–50	2	2	2 5/8	3 1/4	1 29/32
	IPC5041*	500–350 240–185	4/0–4 90–25	1	1	2	2 1/2	2 1/8
	IPC3535	350–4/0 185–95	350–4/0 185–95	2	2	2 1/16	2 1/2	2 1/8
	IPC3541	350–4/0 185–95	4/0–10 95–6	1	1	2 3/4	3	2 5/8

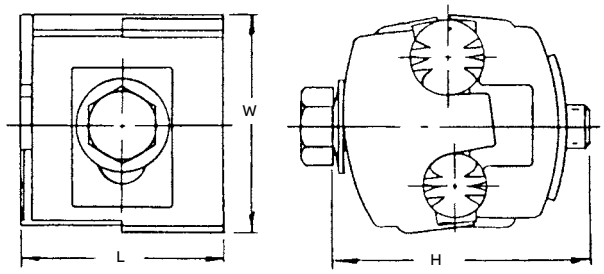


Fig. 1

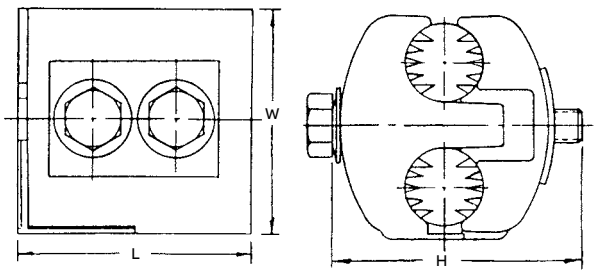


Fig. 2

* 600 V rating (all others 300 V).

05

Two-bolt connectors

Two-bolt connectors	
Type 2B	24
Type 2BX	24
Type 2BW	25
Type 2BPW	25

Two-bolt connectors

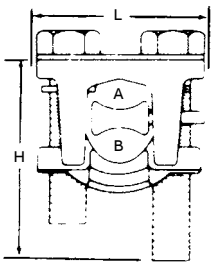
Type 2B and 2BX



Neoprene washers capture bolts in bottom casting for easy installation.

- Castings and bolts of high-strength copper alloy
- Removable cap
- UL 486A listed for copper conductor only

TYPE 2B – TWO-BOLT CONNECTOR WITHOUT SPACER

		Conductor range (AWG or kcmil)				Conductor diameter (B)			Dimensions (in.)		
		Main		Tap							
	Cat. no.	Max.	Min.	Max.	Min.	Max.	Min.	Bolt head	L	H	D
Diagram	2B10	1/0 str.	2 str.	1/0 str.	10 sol.	0.746	0.394	1/2	1 5/16	1 3/4	5/16
	2B20BB	2/0 str.	2 str.	2/0 str.	8 sol.	0.838	0.420	1/2	1 5/16	1 1/4	5/16
	2B40	4/0 str.	1/0 str.	4/0 str.	6 sol.	1.056	0.530	9/16	1 23/32	1 3/4	3/8
	2B350	350 kcmil	4/0 str.	350 kcmil	4 sol.	1.362	0.726	3/4	2 1/8	2	1/2
	2B500	500 kcmil	350 kcmil	500 kcmil	4 sol.	1.626	0.883	3/4	2 1/4	2 1/2	1/2
	2B800	800 kcmil	600 kcmil	800 kcmil	2 sol.	2.062	1.149	3/4	2 1/2	2 1/2	1/2
	2B1000	1000 kcmil	750 kcmil	1000 kcmil	2 sol.	2.304	1.255	15/16	2 31/32	2 3/4	5/8

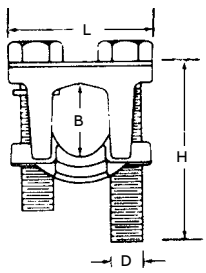
UL 486A



Extra-long bolt enables top casting to swing free over two conductors of maximum range.

- Single-piece construction
- Castings and bolts of high-strength copper alloy
- Neoprene washer holds free bolt in place during installation
- UL 486A listed for copper conductor only

TYPE 2BX – ONE-PIECE TWO-BOLT CONNECTOR WITHOUT SPACER

		Conductor range (AWG or kcmil)				Conductor diameter (B)			Dimensions (in.)		
		Main		Tap							
	Cat. no.	Max.	Min.	Max.	Min.	Max.	Min.	Bolt head	L	H	D
Diagram	2B10X	1/0 str.	2 str.	1/0 str.	10 sol.	0.746	0.394	1/2	1 5/16	1 1/2	5/16
	2B20X	2/0 str.	2 str.	2/0 str.	8 sol.	0.838	0.420	1/2	1 5/16	1 1/2	5/16
	2B40X	4/0 str.	1/0 str.	4/0 str.	6 sol.	1.056	0.530	9/16	1 23/32	1 7/8	3/8
	2B350X	350 kcmil	4/0 str.	350 kcmil	4 sol.	1.362	0.726	3/4	2 1/8	2 1/4	1/2
	2B500X	500 kcmil	350 kcmil	500 kcmil	4 sol.	1.626	0.883	3/4	2 1/4	2 1/2	1/2
	2B800X	800 kcmil	600 kcmil	800 kcmil	2 sol.	2.062	1.149	3/4	2 1/2	2 3/4	1/2
	2B1000X	1000 kcmil	750 kcmil	1000 kcmil	2 sol.	2.304	1.255	15/16	2 31/32	3 1/4	5/8

UL 486A

Two-bolt connectors

Type 2BW and Type 2BPW

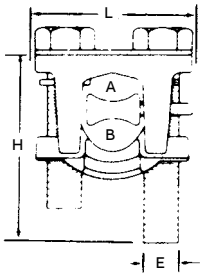


Ringed, contoured spacer swings easily over conductor.

- For use on copper conductors only
- Single-piece construction spacer
- Castings and bolts of high-strength copper alloy
- Spacer of ductile, high-conductivity copper alloy
- UL 486A listed for copper conductor only

TYPE 2BW – TWO-BOLT CONNECTOR WITH SPACER

		Conductor range (AWG or kcmil)				Conductor diameter				Bolt head	Dimensions (in.)		
		Main		Tap		A		B					
	Cat. no.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	(in.)	L	H	E
Diagram	2B10W	1/0 str.	2 str.	1/0 str.	10 sol.	0.373	0.292	0.373	0.102	1/2	1 5/16	1 5/8	5/16
	2B20W	2/0 str.	2 str.	2/0 str.	8 sol.	0.419	0.292	0.419	0.128	1/2	1 5/16	1 5/8	5/16
	2B40W	4/0 str.	1/0 str.	4/0 str.	6 sol.	0.528	0.368	0.528	0.162	9/16	1 23/32	2 1/8	3/8
	2B350W	350 kcmil	4/0 str.	350 kcmil	4 sol.	0.681	0.522	0.681	0.204	3/4	2 1/8	2 1/2	1/2
	2B500W	500 kcmil	350 kcmil	500 kcmil	4 sol.	0.813	0.679	0.813	0.204	3/4	2 1/4	2 3/4	1/2
	2B800W	800 kcmil	600 kcmil	800 kcmil	2 sol.	1.031	0.891	1.031	0.258	3/4	2 1/2	3 1/4	1/2
	2B1000W	1000 kcmil	750 kcmil	1000 kcmil	2 sol.	1.152	0.997	1.152	0.258	15/16	2 31/32	3 3/4	5/8



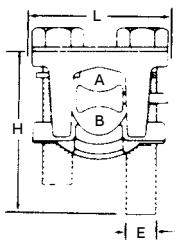


For use on copper, aluminum and ACSR conductors.

- Single-piece construction spacer
- UL 486A listed for copper conductor only

TYPE 2BPW – TWO-BOLT CONNECTOR WITH SPACER

		Conductor range (AWG or kcmil)				Conductor diameter				Bolt head	Dimensions (in.)		
		Main		Tap		A		B					
	Cat. no.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	(in.)	L	H	E
Diagram	2B10PW	1/0–2	1/0–6	1/0 str.–2 str.	1/0 str.–2 sol.	0.398	0.292	0.398	0.102	1/2	1 5/16	1 5/8	5/16
	2B20PW	2/0–2	2/0–6	2/0 str.–2 str.	1/0 str.–2 sol.	0.447	0.292	0.447	0.128	1/2	1 5/16	1 5/8	5/16
	2B40PW	4/0–1/0	4/0–6	4/0 str.–1/0 str.	4/0 str.–1/0 sol.	0.563	0.368	0.563	0.162	9/16	1 23/32	2 1/8	3/8
	2B350PW	350–4/0	350–4	350–4/0	350–4 sol.	0.680	0.522	0.680	0.204	3/4	2 1/8	2 1/2	1/2
	2B500PW	397.5–336.4	397.5–4	500–350	500–4 sol.	0.813	0.679	0.813	0.204	3/4	2 1/4	2 3/4	1/2
	2B800PW	666.6–397.5	666.6–2	800–600	800–2 sol.	1.031	0.891	1.031	0.258	3/4	2 1/2	3 1/4	1/2
	2B1000PW	900–666.6	900–2	1000–750	1000–2 sol.	1.162	0.997	1.162	0.258	15/16	2 31/32	3 3/4	5/8



06

Insulated multi-taps

Insulated multi-taps	
Aluminum multi-tap encapsulated cable blocks – One-way configuration	28
Aluminum multi-tap encapsulated cable blocks – Two-way configuration	29
AMT connectors	30
AMT multi-port connectors “same side”	31
AMT multi-port connectors “double” both sides	33

Insulated multi-taps

Aluminum multi-tap encapsulated cable blocks – One-way configuration



CSR 2/0



CSB 250-5 S

Use these dual-rated blocks with copper or aluminum cable.

- Versatile design supports a range of cable sizes and outlets in one-way configurations
- Clear PVC insulation enables safe and time-saving installation with no taping required
- Meets or exceeds ANSI C119.4 specifications

ALUMINUM MULTI-TAP ENCAPSULATED CABLE BLOCKS – ONE-WAY CONFIGURATION

Clear Cat. no.	No. of outlets	Wire range (AWG or kcmil)	Screw size	Dimensions (in.) Length	Width	Height
Splices						
CSR 2/0	2	#14–2/0	3/8 Hex	2 3/4	7/8	1 3/8
CSR 250	2	#6–250		4 1/8	1 1/8	2 1/8
CSR 350	2	#6–350		4 3/4	1 3/8	2 1/2
CSR 500	2	2/0–500		6 1/2	1 5/8	2 7/8
Cable blocks						
CSB 4-2 S	2	#4–#14	Slotted	1 1/8	1 5/8	1 5/16
CSB 4-3 S	3			1 9/16		
CSB 4-4 SAH*	4			2 1/16		
CSB 4-5 S	5			2 9/16		
CSB 4-6 S	6			3 1/16		
CSB 4-7 S	7			3 9/16		
CSB 4-8 SAH*	8			4 1/16		
CSB 2/0-2 S	2	2/0–#14	3/16 Hex	1 5/8	1 3/4	1 3/8
CSB 2/0-3 S	3			2 3/8		
CSB 2/0-4 S	4			3 1/8		
CSB 2/0-5 S	5			3 7/8		
CSB 2/0-6 S	6			4 5/8		
CSB 2/0-7 S	7			5 3/8		
CSB 2/0-8 S	8			6 1/8		
CSB 250-2 S	2	250–#6	5/16 Hex	1 7/8	2 5/8	2 1/8
CSB 250-3 S	3			2 27/32		
CSB 250-4 S	4			3 13/16		
CSB 250-5 S	5			4 25/32		
CSB 250-6 S	6			5 3/4		
CSB 250-7-S	7			6 3/4		
CSB 250-8 S	8			7 45/64		
CSB 350-2 S	2	350–#10	5/16 Hex	2 1/4	3 1/8	2 1/2
CSB 350-3 S	3			3 1/4		
CSB 350-4 S	4			4 1/4		
CSB 350-5 S	5			5 1/4		
CSB 350-6 S	6			6 1/4		
CSB 350-7 S	7			7 1/4		
CSB 350-8 S	8			8 1/4		
CSB 500-2 S	2	500–#6	5/16 Hex	2 7/8	3 3/16	2 3/4
CSB 500-3 S	3			4 1/8		
CSB 500-4 S	4			5 3/8		
CSB 500-5 S	5			6 5/8		
CSB 500-6 S	6			7 7/8		
CSB 500-7 S	7			9 1/8		
CSB 500-8 S	8			10 3/8		

* Not UL listed, includes hex screw.

Insulated multi-taps

Aluminum multi-tap encapsulated cable blocks – Two-way configuration



CSB 500-8

Use these dual-rated blocks with copper or aluminum.

- Versatile design supports a range of cable sizes and outlets available in one-way configurations
- Clear PVC insulation enables safe and time-saving installation with no taping required
- Meets or exceeds ANSI C119.4 specifications

ALUMINUM MULTI-TAP ENCAPSULATED CABLE BLOCKS – TWO-WAY CONFIGURATION

Clear Cat. no.	No. of outlets	Wire range (AWG or kcmil)	Screw size	Dimensions (in.) Length	Width	Height
CSB 4-2	2	#4–#14	Slotted	1 1/8	1 5/8	1 5/16
CSB 4-3	3			1 9/16		
CSB 4-4	4			2 1/16		
CSB 4-5	5			2 9/16		
CSB 4-6	6			3 1/16		
CSB 4-7	7			3 9/16		
CSB 4-8	8			4 1/16		
CSB 2/0-2	2	2/0–#14	3/16 Hex	1 5/8	1 3/4	1 3/8
CSB 2/0-3	3			2 3/8		
CSB 2/0-4	4			3 1/8		
CSB 2/0-5	5			3 7/8		
CSB 2/0-6	6			4 5/8		
CSB 2/0-7	7			5 3/8		
CSB 2/0-8	8			6 1/8		
CSB 250-2	2	250–#6	5/16 Hex	1 7/8	2 5/8	2 1/8
CSB 250-3	3			2 27/32		
CSB 250-4	4			3 13/16		
CSB 250-5	5			4 25/32		
CSB 250-6	6			5 3/4		
CSB 250-7	7			6 3/4		
CSB 250-8	8			7 45/64		
CSB 350-2	2	350–#10	3/8 Hex	2 1/4	3 1/8	2 1/2
CSB 350-3	3			3 1/4		
CSB 350-4	4			4 1/4		
CSB 350-5	5			5 1/4		
CSB 350-6	6			6 1/4		
CSB 350-7	7			7 1/4		
CSB 350-8	8			8 1/4		
CSB 500-2	2	500–#6	3/8 Hex	2 7/8	3 3/16	2 3/4
CSB 500-3	3			4 1/8		
CSB 500-4	4			5 3/8		
CSB 500-5	5			6 5/8		
CSB 500-6	6			7 7/8		
CSB 500-7	7			9 1/8		
CSB 500-8	8			10 3/8		
CSB 750-2	2	750–1/0	3/8 Hex	3	3 3/8	2 1/4
CSB 750-3	3			4 7/16		
CSB 750-4	4			5 3/16		
CSB 750-5	5			7 1/4		
CSB 750-6	6			8 5/8		
CSB 750-7	7			10		
CSB 750-8	8			1 17/16		
CSB 750-9	9			12 13/16		
CSB 750-10	10			14 1/4		

Insulated multi-taps

AMT connectors



Superior connections with lower installation costs.

- PVC insulation helps eliminate insulation failures and reduce outage costs
- UV-resistant material
- Compact design provides space efficiencies
- UL listed

The high quality and built-in flexibility of Blackburn® AMT connectors reduce the cost of field installations on splices, taps and terminations. They're easy and quick to install and provide superior insulation that lasts the life of the connection.

AMT ALUMINUM SPLICES

Cat. no.	Figure	No. of ports	Wire range (AWG or kcmil)	Length (in.)	Width (in.)	Height (in.)	Hex size (in.)	Std. pkg. qty.
AMTSR10	1	–	1/0–14 str.	3.25	0.94	1.63	3/16	4
AMTSR250	1	–	250–6 str.	3.96	1.19	2.17	5/16	4
AMTSR350	1	–	350–6 str.	4.43	1.31	2.62	5/16	2
AMTSR500	1	–	500–4 str.	5.38	1.44	3.03	3/8	2

AMT SPLICES OFFSET

Cat. no.	Figure	No. of ports	Wire range	Length (in.)	Width (in.)	Height (in.)	Hex size (in.)	Std. pkg. qty.
AMTTC4	3	2	4–14 str.	1.24	1.25	1.42	1/8	12
AMTT10	3	2	1/0–14 str.	1.63	1.63	1.63	3/16	6
AMTT20	3	2	2/0–14 str.	1.41	1.50	1.35	Slotted screw	25
AMTT250	3	2	250–10 str.	2.03	2.63	2.2	5/16	25

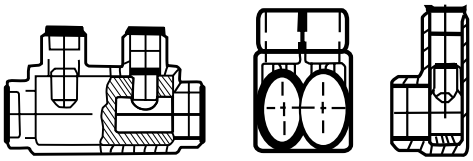


Fig. 1

Fig. 2

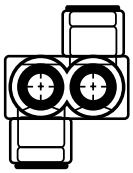


Fig. 3

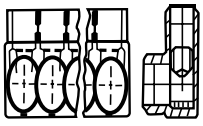


Fig. 4

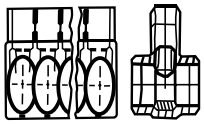


Fig. 5

Insulated multi-taps

AMT multi-port connectors “same side”

AMT MULTI-PORT CONNECTORS “SAME SIDE”

	Cat. no.	Fig.	No. of ports	Wire range (AWG or kcmil)	Length (in.)	Width (in.)	Height (in.)	Hex size (in.)	Std. pkg. qty.
Diagrams	AMTC4	2	2	4–14 str.	1.11	1.10	1.35	Slotted screw	25
	AMTS4142	2	2	4–14 str.	1.24	1.22	1.42	1/8	12
	AMTS4143	4	3	4–14 str.	1.7	1.22	1.42	1/8	12
	AMTS4144	4	4	4–14 str.	2.16	1.22	1.42	1/8	6
	AMTS4145	4	5	4–14 str.	2.61	1.22	1.42	1/8	6
	AMTS4146	4	6	4–14 str.	3.07	1.22	1.42	1/8	6
	AMTS4147	4	7	4–14 str.	3.53	1.22	1.42	1/8	4
	AMTS4148	4	8	4–14 str.	3.99	1.22	1.42	1/8	4
	AMTS4149	4	9	4–14 str.	4.45	1.22	1.42	1/8	4
	AMTS41410	4	10	4–14 str.	4.9	1.22	1.42	1/8	4
	AMTS41411	4	11	4–14 str.	5.36	1.22	1.42	1/8	3
	AMTS41412	4	12	4–14 str.	5.82	1.22	1.42	1/8	3
	AMTS41413	4	13	4–14 str.	6.28	1.22	1.42	1/8	2
	AMTS41414	4	14	4–14 str.	6.74	1.22	1.42	1/8	2
	AMTS10142	2	2	1/0–14 str.	1.67	1.53	1.63	3/16	12
	AMTS10143	4	3	1/0–14 str.	2.29	1.53	1.63	3/16	12
	AMTS10144	4	4	1/0–14 str.	2.92	1.53	1.63	3/16	6
	AMTS10145	4	5	1/0–14 str.	3.54	1.53	1.63	3/16	6
	AMTS10146	4	6	1/0–14 str.	4.17	1.53	1.63	3/16	6
	AMTS10147	4	7	1/0–14 str.	4.79	1.53	1.63	3/16	4
	AMTS10148	4	8	1/0–14 str.	5.42	1.53	1.63	3/16	4
	AMTS10149	4	9	1/0–14 str.	6.04	1.53	1.63	3/16	4
	AMTS101410	4	10	1/0–14 str.	6.67	1.53	1.63	3/16	4
	AMTS101411	4	11	1/0–14 str.	7.29	1.53	1.63	3/16	3
	AMTS101412	4	12	1/0–14 str.	7.92	1.53	1.63	3/16	3
	AMTS101413	4	13	1/0–14 str.	8.54	1.53	1.63	3/16	2
	AMTS101414	4	14	1/0–14 str.	9.17	1.53	1.63	3/16	2
	AMT20	2	2	2/0–14 str.	1.41	1.10	1.35	5/16	25
	AMTS3062	2	2	3/0–6 str.	1.89	1.58	1.86	3/16	12
	AMTS3063	4	3	3/0–6 str.	2.65	1.58	1.86	3/16	6
	AMTS3064	4	4	3/0–6 str.	3.42	1.58	1.86	3/16	6
	AMTS3065	4	5	3/0–6 str.	4.18	1.58	1.86	3/16	4
	AMTS3066	4	6	3/0–6 str.	4.95	1.58	1.86	3/16	4
	AMTS3067	4	7	3/0–6 str.	5.71	1.58	1.86	3/16	3
	AMTS3068	4	8	3/0–6 str.	6.48	1.58	1.86	3/16	3
	AMTS3069	4	9	3/0–6 str.	7.24	1.58	1.86	3/16	3
	AMTS30610	4	10	3/0–6 str.	8	1.58	1.86	3/16	2
	AMTS30611	4	11	3/0–6 str.	8.77	1.58	1.86	3/16	2
	AMTS30612	4	12	3/0–6 str.	9.54	1.58	1.86	3/16	2
	AMTS30613	4	13	3/0–6 str.	10.3	1.58	1.86	3/16	2
	AMTS30614	4	14	3/0–6 str.	11.07	1.58	1.86	3/16	2
	AMT250	2	2	250–10 str.	2.03	2.00	2.20	5/16	25
	AMTS25062	4	2	250–6 str.	2.17	1.91	2.17	5/16	6
	AMTS25063	4	3	250–6 str.	3.07	1.91	2.17	5/16	6
	AMTS25064	4	4	250–6 str.	3.96	1.91	2.17	5/16	6
	AMTS25065	4	5	250–6 str.	4.85	1.91	2.17	5/16	4
	AMTS25066	4	6	250–6 str.	5.75	1.91	2.17	5/16	4
	AMTS25067	4	7	250–6 str.	6.64	1.91	2.17	5/16	3

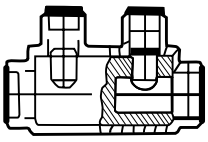


Fig. 1

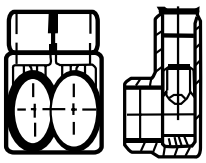


Fig. 2

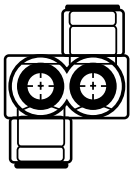


Fig. 3

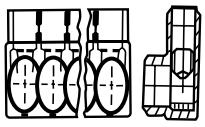


Fig. 4

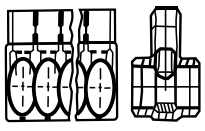


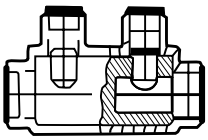
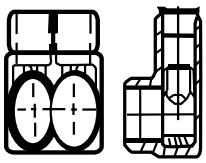
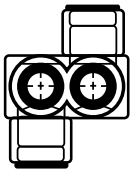
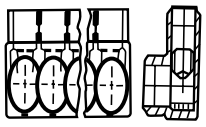
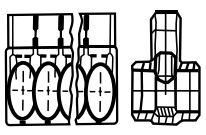
Fig. 5

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Insulated multi-taps

AMT multi-port connectors “same side” (continued)

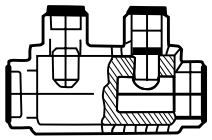
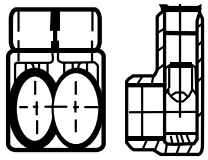
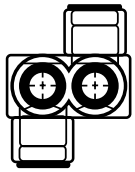
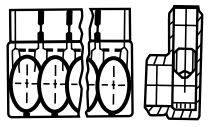
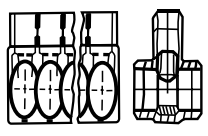
AMT MULTI-PORT CONNECTORS “SAME SIDE” (CONTINUED)

	Cat. no.	Fig.	No. of ports	Wire range (AWG or kcmil)	Length (in.)	Width (in.)	Height (in.)	Hex size (in.)	Std. pkg. qty.
Diagrams	AMTS25068	4	8	250–6 str.	7.53	1.91	2.17	5/16	3
	AMTS25069	4	9	250–6 str.	8.42	1.91	2.17	5/16	3
	AMTS250610	4	10	250–6 str.	9.32	1.91	2.17	5/16	2
	AMTS250611	4	11	250–6 str.	10.21	1.91	2.17	5/16	2
	AMTS250612	4	12	250–6 str.	11.1	1.91	2.17	5/16	2
	AMTS250613	4	13	250–6 str.	12	1.91	2.17	5/16	1
	AMTS250614	4	14	250–6 str.	12.89	1.91	2.17	5/16	1
 Fig. 1	AMT350	2	2	350–10 str.	2.35	2.13	2.63	5/16	25
	AMTS35062	2	2	350–6 str.	2.51	2.03	2.62	5/16	4
	AMTS35063	4	3	350–6 str.	3.56	2.03	2.62	5/16	4
	AMTS35064	4	4	350–6 str.	4.61	2.03	2.62	5/16	3
 Fig. 2	AMTS35065	4	5	350–6 str.	5.66	2.03	2.62	5/16	3
	AMTS35066	4	6	350–6 str.	6.71	2.03	2.62	5/16	2
	AMTS35067	4	7	350–6 str.	7.76	2.03	2.62	5/16	2
	AMTS35068	4	8	350–6 str.	8.81	2.03	2.62	5/16	2
	AMTS35069	4	9	350–6 str.	9.86	2.03	2.62	5/16	2
	AMTS350610	4	10	350–6 str.	10.91	2.03	2.62	5/16	2
	AMTS350611	4	11	350–6 str.	11.96	2.03	2.62	5/16	1
	AMTS350612	4	12	350–6 str.	13.01	2.03	2.62	5/16	1
	AMTS350613	4	13	350–6 str.	14.06	2.03	2.62	5/16	1
	AMTS350614	4	14	350–6 str.	15.11	2.03	2.62	5/16	1
 Fig. 3	AMT500	2	2	500–6 str.	2.62	2.16	2.91	3/8	25
	AMTS50042	2	2	500–4 str.	2.97	2.28	3.04	3/8	3
	AMTS50043	4	3	500–4 str.	4.12	2.28	3.04	3/8	3
	AMTS50044	4	4	500–4 str.	5.28	2.28	3.04	3/8	3
	AMTS50045	4	5	500–4 str.	6.44	2.28	3.04	3/8	2
	AMTS50046	4	6	500–4 str.	7.59	2.28	3.04	3/8	2
	AMTS50047	4	7	500–4 str.	8.75	2.28	3.04	3/8	2
	AMTS50048	4	8	500–4 str.	9.9	2.28	3.04	3/8	2
	AMTS50049	4	9	500–4 str.	11.06	2.28	3.04	3/8	2
	AMTS500410	4	10	500–4 str.	12.22	2.28	3.04	3/8	1
	AMTS500411	4	11	500–4 str.	13.37	2.28	3.04	3/8	1
 Fig. 4	AMTS500412	4	12	500–4 str.	14.53	2.28	3.04	3/8	1
	AMTS500413	4	13	500–4 str.	15.68	2.28	3.04	3/8	1
	AMTS500414	4	14	500–4 str.	16.84	2.28	3.04	3/8	1
	AMTS7502502	4	2	750–250	3.47	2.75	3.31	1/2	3
	AMTS7502503	4	3	750–250	4.89	2.75	3.31	1/2	3
	AMTS7502504	4	4	750–250	6.32	2.75	3.31	1/2	2
	AMTS7502505	4	5	750–250	7.74	2.75	3.31	1/2	1
	AMTS7502506	4	6	750–250	9.16	2.75	3.31	1/2	1
	AMTS7502507	4	7	750–250	10.58	2.75	3.31	1/2	1
 Fig. 5	AMTS7502508	4	8	750–250	12	2.75	3.31	1/2	1
	AMTS7502509	4	9	750–250	13.43	2.75	3.31	1/2	1
	AMTS75025010	4	10	750–250	14.85	2.75	3.31	1/2	1
	AMTS75025011	4	11	750–250	16.27	2.75	3.31	1/2	1
	AMTS75025012	4	12	750–250	17.69	2.75	3.31	1/2	1
	AMTS75025013	4	13	750–250	19.11	2.75	3.31	1/2	1
	AMTS75025014	4	14	750–250	20.54	2.75	3.31	1/2	1

Insulated multi-taps

AMT multi-port connectors “double” both sides

AMT MULTI-PORT CONNECTORS “DOUBLE” BOTH SIDES

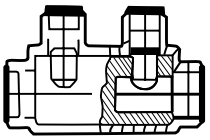
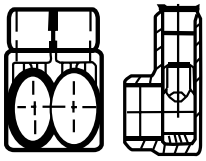
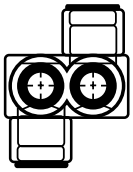
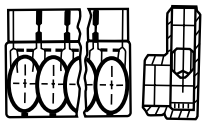
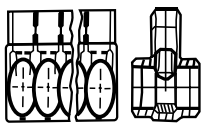
Diagrams	Cat. no.	Fig.	No. of ports	Wire range (AWG or kcmil)	Length (in.)	Width (in.)	Height (in.)	Hex size (in.)	Std. pkg. qty.
 Fig. 1	AMTD4142	5	2	4–14 str.	1.24	1.25	1.42	1/8	12
	AMTD4143	5	3	4–14 str.	1.7	1.25	1.42	1/8	12
	AMTD4144	5	4	4–14 str.	2.16	1.25	1.42	1/8	6
	AMTD4145	5	5	4–14 str.	2.61	1.25	1.42	1/8	6
	AMTD4146	5	6	4–14 str.	3.07	1.24	1.42	1/8	6
	AMTD4147	5	7	4–14 str.	3.53	1.25	1.42	1/8	4
	AMTD4148	5	8	4–14 str.	3.99	1.25	1.42	1/8	4
	AMTD4149	5	9	4–14 str.	4.45	1.25	1.42	1/8	4
	AMTD41410	5	10	4–14 str.	4.9	1.25	1.42	1/8	4
	AMTD41411	5	11	4–14 str.	5.36	1.25	1.42	1/8	3
	AMTD41412	5	12	4–14 str.	5.82	1.25	1.42	1/8	3
 Fig. 2	AMTD41413	5	13	4–14 str.	6.28	1.25	1.42	1/8	2
	AMTD41414	5	14	4–14 str.	6.74	1.25	1.42	3/16	2
	AMTD10142	5	2	1/0–14 str.	1.67	1.63	1.63	3/16	12
	AMTD10143	5	3	1/0–14 str.	2.29	1.63	1.63	3/16	12
	AMTD10144	5	4	1/0–14 str.	2.92	1.63	1.63	3/16	6
	AMTD10145	5	5	1/0–14 str.	3.54	1.63	1.63	3/16	6
	AMTD10146	5	6	1/0–14 str.	4.17	1.63	1.63	3/16	6
	AMTD10147	5	7	1/0–14 str.	4.79	1.63	1.63	3/16	4
	AMTD10148	5	8	1/0–14 str.	5.42	1.63	1.63	3/16	4
 Fig. 3	AMTD10149	5	9	1/0–14 str.	6.04	1.63	1.63	3/16	4
	AMTD101410	5	10	1/0–14 str.	6.67	1.63	1.63	3/16	4
	AMTD101411	5	11	1/0–14 str.	7.29	1.63	1.63	3/16	3
	AMTD101412	5	12	1/0–14 str.	7.92	1.63	1.63	3/16	3
	AMTD101413	5	13	1/0–14 str.	8.54	1.63	1.63	3/16	2
	AMTD101414	5	14	1/0–14 str.	9.17	1.63	1.63	3/16	2
	AMTD3062	5	2	3/0–6 str.	1.89	1.68	1.86	3/16	6
	AMTD3063	5	3	3/0–6 str.	2.65	1.68	1.86	3/16	6
	AMTD3064	5	4	3/0–6 str.	3.42	1.68	1.86	3/16	6
	AMTD3065	5	5	3/0–6 str.	4.18	1.68	1.86	3/16	4
	AMTD3066	5	6	3/0–6 str.	4.95	1.68	1.86	3/16	4
 Fig. 4	AMTD3067	5	7	3/0–6 str.	5.71	1.68	1.86	3/16	3
	AMTD3068	5	8	3/0–6 str.	6.48	1.68	1.86	3/16	3
	AMTD3069	5	9	3/0–6 str.	7.24	1.68	1.86	3/16	3
	AMTD30610	5	10	3/0–6 str.	8.01	1.68	1.86	3/16	2
	AMTD30611	5	11	3/0–6 str.	8.77	1.68	1.86	3/16	2
	AMTD30612	5	12	3/0–6 str.	9.54	1.68	1.86	3/16	2
	AMTD30613	5	13	3/0–6 str.	10.3	1.68	1.86	3/16	2
	AMTD30614	5	14	3/0–6 str.	11.07	1.68	1.86	3/16	2
	AMTD25062	5	2	250–6 str.	2.17	2.13	2.17	5/16	6
	AMTD25063	5	3	250–6 str.	3.07	2.13	2.17	5/16	6
 Fig. 5	AMTD25064	5	4	250–6 str.	3.96	2.13	2.17	5/16	6
	AMTD25065	5	5	250–6 str.	4.85	2.13	2.17	5/16	4
	AMTD25066	5	6	250–6 str.	5.75	2.13	2.17	5/16	4
	AMTD25067	5	7	250–6 str.	6.64	2.13	2.17	5/16	3
	AMTD25068	5	8	250–6 str.	7.53	2.13	2.17	5/16	3
	AMTD25069	5	9	250–6 str.	8.42	2.13	2.17	5/16	3
	AMTD250610	5	10	250–6 str.	9.32	2.13	2.17	5/16	2

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Insulated multi-taps

AMT multi-port connector “double” both sides (continued)

AMT MULTI-PORT CONNECTORS “DOUBLE” BOTH SIDES (CONTINUED)

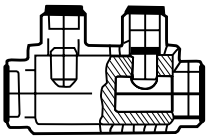
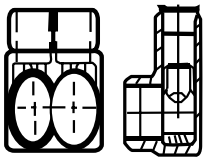
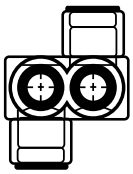
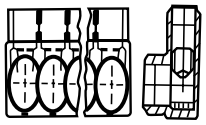
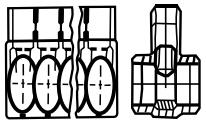
Diagrams	Cat. no.	Fig.	No. of ports	Wire range (AWG or kcmil)	Length (in.)	Width (in.)	Height (in.)	Hex size (in.)	Std. pkg. qty.
 Fig. 1	AMTD250611	5	11	250–6 str.	10.21	2.13	2.17	5/16	2
	AMTD250612	5	12	250–6 str.	11.1	2.13	2.17	5/16	2
	AMTD250613	5	13	250–6 str.	12	2.13	2.17	5/16	1
	AMTD250614	5	14	250–6 str.	12.89	2.13	2.17	5/16	1
	AMTD35062	5	2	350–6 str.	2.51	2.25	2.62	5/16	4
	AMTD35063	5	3	350–6 str.	3.56	2.25	2.62	5/16	4
	AMTD35064	5	4	350–6 str.	4.61	2.25	2.62	5/16	3
	AMTD35065	5	5	350–6 str.	5.67	2.25	2.62	5/16	3
	AMTD35066	5	6	350–6 str.	6.71	2.25	2.62	5/16	3
	AMTD35067	5	7	350–6 str.	7.76	2.25	2.62	5/16	2
	AMTD35068	5	8	350–6 str.	8.81	2.25	2.62	5/16	2
 Fig. 2	AMTD35069	5	9	350–6 str.	9.86	2.25	2.62	5/16	2
	AMTD350610	5	10	350–6 str.	10.91	2.25	2.62	5/16	2
	AMTD350611	5	11	350–6 str.	11.96	2.25	2.62	5/16	1
	AMTD350612	5	12	350–6 str.	13.01	2.25	2.62	5/16	1
	AMTD350613	5	13	350–6 str.	14.06	2.25	2.62	5/16	1
	AMTD350614	5	14	350–6 str.	15.11	2.25	2.62	5/16	1
	AMTD50042	5	2	500–4 str.	2.97	2.63	3.04	3/8	3
	AMTD50043	5	3	500–4 str.	4.12	2.63	3.04	3/8	3
	AMTD50044	5	4	500–4 str.	5.28	2.63	3.04	3/8	3
 Fig. 3	AMTD50045	5	5	500–4 str.	6.44	2.63	3.04	3/8	2
	AMTD50046	5	6	500–4 str.	7.59	2.63	3.04	3/8	2
	AMTD50047	5	7	500–4 str.	8.75	2.63	3.04	3/8	2
	AMTD50048	5	8	500–4 str.	9.9	2.63	3.04	3/8	2
	AMTD50049	5	9	500–4 str.	11.06	2.63	3.04	3/8	2
	AMTD500410	5	10	500–4 str.	12.22	2.63	3.04	3/8	1
	AMTD500411	5	11	500–4 str.	13.37	2.63	3.04	3/8	1
	AMTD500412	5	12	500–4 str.	14.53	2.63	3.04	3/8	1
	AMTD500413	5	13	500–4 str.	15.68	2.63	3.04	3/8	1
	AMTD500414	5	14	500–4 str.	16.84	2.63	3.04	3/8	1
	AMTD7502502	5	2	750–250	3.47	3.25	3.31	1/2	3
 Fig. 4	AMTD7502503	5	3	750–250	4.89	3.25	3.31	1/2	3
	AMTD7502504	5	4	750–250	6.32	3.25	3.31	1/2	2
	AMTD7502505	5	5	750–250	7.74	3.25	3.31	1/2	1
	AMTD7502506	5	6	750–250	9.16	3.25	3.31	1/2	1
	AMTD7502507	5	7	750–250	10.58	3.25	3.31	1/2	1
	AMTD7502508	5	8	750–250	12	3.25	3.31	1/2	1
	AMTD7502509	5	9	750–250	13.43	3.25	3.31	1/2	1
	AMTD75025010	5	10	750–250	14.85	3.25	3.31	1/2	1
	AMTD75025011	5	11	750–250	16.27	3.25	3.31	1/2	1
	AMTD75025012	5	12	750–250	17.69	3.25	3.31	1/2	1
 Fig. 5	AMTD75025013	5	13	750–250	19.11	3.25	3.31	1/2	1
	AMTD75025014	5	14	750–250	20.54	3.25	3.31	1/2	1
	AMTDM3062	5	2	3/0–6 str.	3.42	1.68	1.86	3/16	6
	AMTDM3063	5	3	3/0–6 str.	4.18	1.68	1.86	3/16	4
	AMTDM3064	5	4	3/0–6 str.	4.95	1.68	1.86	3/16	4
	AMTDM3065	5	5	3/0–6 str.	5.71	1.68	1.86	3/16	3
	AMTDM3066	5	6	3/0–6 str.	6.48	1.68	1.86	3/16	3

Continued on next page

Insulated multi-taps

AMT multi-port connector “double” both sides (continued)

AMT MULTI-PORT CONNECTORS “DOUBLE” BOTH SIDES (CONTINUED)

Diagrams	Cat. no.	Fig.	No. of ports	Wire range (AWG or kcmil)	Length (in.)	Width (in.)	Height (in.)	Hex size (in.)	Std. pkg. qty.
 Fig. 1	AMTDM3067	5	7	3/0–6 str.	7.24	1.68	1.86	3⁄16	3
	AMTDM3068	5	8	3/0–6 str.	8.01	1.68	1.86	3⁄16	2
	AMTDM3069	5	9	3/0–6 str.	8.77	1.68	1.86	3⁄16	2
	AMTDM30610	5	10	3/0–6 str.	9.54	1.68	1.86	3⁄16	2
	AMTDM30611	5	11	3/0–6 str.	10.3	1.68	1.86	3⁄16	2
	AMTDM30612	5	12	3/0–6 str.	11.07	1.68	1.86	3⁄16	2
	AMTDM25062	5	2	250–6 str.	3.96	2.13	2.17	5⁄16	6
	AMTDM25063	5	3	250–6 str.	4.85	2.13	2.17	5⁄16	4
	AMTDM25064	5	4	250–6 str.	5.73	2.13	2.17	5⁄16	4
	AMTDM25065	5	5	250–6 str.	6.64	2.13	2.17	5⁄16	3
	AMTDM25066	5	6	250–6 str.	7.53	2.13	2.17	5⁄16	3
	AMTDM25067	5	7	250–6 str.	8.42	2.13	2.17	5⁄16	3
 Fig. 2	AMTDM25068	5	8	250–6 str.	9.32	2.13	2.17	5⁄16	2
	AMTDM25069	5	9	250–6 str.	10.21	2.13	2.17	5⁄16	2
	AMTDM250610	5	10	250–6 str.	11.1	2.13	2.17	5⁄16	2
	AMTDM250611	5	11	250–6 str.	12	2.13	2.17	5⁄16	1
	AMTDM250612	5	12	250–6 str.	12.89	2.13	2.17	5⁄16	1
	AMTDM35062	5	2	350–6 str.	4.61	2.25	2.62	5⁄16	3
	AMTDM35063	5	3	350–6 str.	5.67	2.25	2.62	5⁄16	3
	AMTDM35064	5	4	350–6 str.	6.71	2.25	2.62	5⁄16	3
	AMTDM35065	5	5	350–6 str.	7.76	2.25	2.62	5⁄16	2
	AMTDM35066	5	6	350–6 str.	8.81	2.25	2.62	5⁄16	2
 Fig. 3	AMTDM35067	5	7	350–6 str.	9.86	2.25	2.62	5⁄16	2
	AMTDM35068	5	8	350–6 str.	10.91	2.25	2.62	5⁄16	2
	AMTDM35069	5	9	350–6 str.	11.96	2.25	2.62	5⁄16	1
	AMTDM350610	5	10	350–6 str.	13.01	2.25	2.62	5⁄16	1
	AMTDM350611	5	11	350–6 str.	14.06	2.25	2.62	5⁄16	1
	AMTDM350612	5	12	350–6 str.	15.11	2.25	2.62	5⁄16	1
	AMTDM50042	5	2	500–4 str.	5.25	2.63	3.04	3⁄8	3
	AMTDM50043	5	3	500–4 str.	6.44	2.63	3.04	3⁄8	2
	AMTDM50044	5	4	500–4 str.	7.59	2.63	3.04	3⁄8	2
	AMTDM50045	5	5	500–4 str.	8.75	2.63	3.04	3⁄8	2
	AMTDM50046	5	6	500–4 str.	9.9	2.63	3.04	3⁄8	2
 Fig. 4	AMTDM50047	5	7	500–4 str.	11.06	2.63	3.04	3⁄8	2
	AMTDM50048	5	8	500–4 str.	12.22	2.63	3.04	3⁄8	1
	AMTDM50049	5	9	500–4 str.	13.37	2.63	3.04	3⁄8	1
	AMTDM500410	5	10	500–4 str.	14.53	2.63	3.04	3⁄8	1
	AMTDM500411	5	11	500–4 str.	15.68	2.63	3.04	3⁄8	1
	AMTDM500412	5	12	500–4 str.	16.84	2.63	3.04	3⁄8	1
	AMTDM7502502	5	2	750–250	6.32	3.25	3.31	1⁄2	2
	AMTDM7502503	5	3	750–250	7.74	3.25	3.31	1⁄2	1
	AMTDM7502504	5	4	750–250	9.16	3.25	3.31	1⁄2	1
	AMTDM7502505	5	5	750–250	10.58	3.25	3.31	1⁄2	1
 Fig. 5	AMTDM7502506	5	6	750–250	12	3.25	3.31	1⁄2	1
	AMTDM7502507	5	7	750–250	13.43	3.25	3.31	1⁄2	1
	AMTDM7502508	5	8	750–250	14.85	3.25	3.31	1⁄2	1
	AMTDM7502509	5	9	750–250	16.27	3.25	3.31	1⁄2	1
	AMTDM75025010	5	10	750–250	17.69	3.25	3.31	1⁄2	1
	AMTDM75025011	5	11	750–250	19.11	3.25	3.31	1⁄2	1
	AMTDM75025012	5	12	750–250	20.54	3.25	3.31	1⁄2	1

07

Dual-rated mechanical connectors

Dual-rated mechanical connectors	
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Dual-rated mechanical connectors

Anti-rotational connectors



“No-turn” design keeps connector securely in place – even under vibration.

Blackburn® anti-rotational connectors are designed with a rib on the bottom that keeps the connectors from turning, so there’s no need to apply excessive torque and there’s no danger of loosening connectors.

The unique “no-turn” rib provides a secure connection that eliminates the conductor pinching that results from connector movement.

The “no-turn” design solves a unique problem for electricians and installers.

Larger conductors tend to get damaged in over-torque conditions, and connectors are prone to loosen in applications where there is vibration, such as motor loads.

Inspectors and local standards boards are requiring electricians and installers to make provisions to eliminate these conditions, and Blackburn anti-rotational connectors are the solution.

- Unique bottom rib keeps connector from turning
- Eliminates the need for excessive torque, which can damage large conductors
- Prevents connector loosening, even in heavy-vibration applications

07

ANTI-ROTATIONAL CONNECTORS

Cat. no.	Wire range (AWG or kcmil)	Bolt hole (in.)	Dimensions (in.) A	B	C	D	E	F	G	H	M	N	Fig.
ADR21-AR	2/0–14	¼	1.470	0.600	0.790	0.190	0.200	0.438	0.094	0.620	0.267	0.453	1
ADR30-AR	300–6	7/16	2.000	1.000	1.120	0.250	0.200	0.468	0.094	1.000	0.330	0.656	1
ADR35-AR	350–6	5/16	2.250	1.120	1.125	0.250	0.200	0.485	0.094	1.120	0.408	0.719	1
ADR60-AR	600–2	½	3.120	1.500	1.560	0.440	0.200	0.720	0.094	1.380	0.408	0.938	1
ADR35-21-AR	350–6	½	2.880	1.915	1.250	0.250	0.200	0.875	0.094	1.120	0.563	0.719	2
ADR60-21-AR	600–2	½	3.120	2.400	1.560	0.440	0.200	0.555	0.094	1.380	0.531	0.938	2

Diagrams

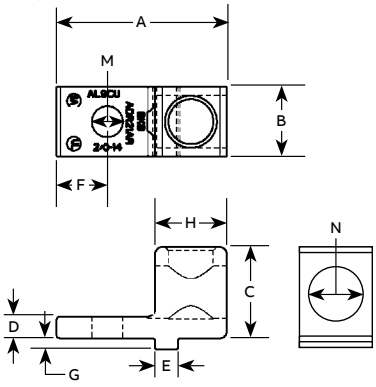


Fig. 1

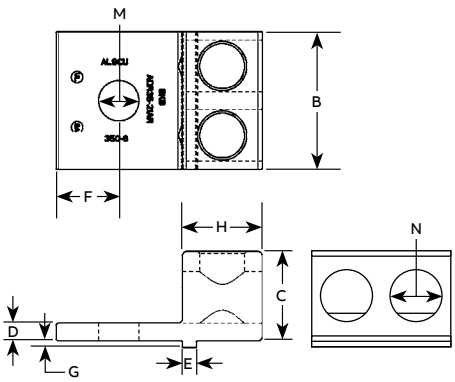


Fig. 2

Dual-rated mechanical connectors

Type ADR – ALCÜL™ single-conductor, one-hole mount and two-hole mount

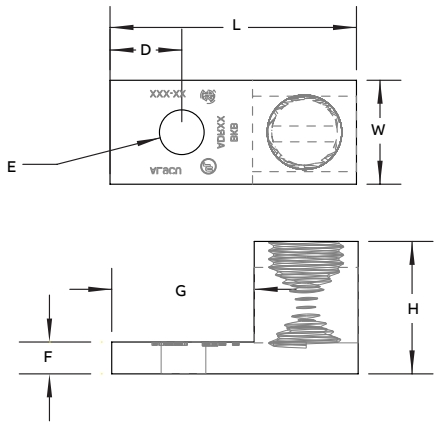


- All-aluminum-body lugs for copper and aluminum conductors
- Easy installation – no special tools required
- Tin plated for low contact resistance

TYPE ADR – ALCÜL SINGLE-CONDUCTOR, ONE-HOLE MOUNT*

	Conductor range AWG or kcmil (Al or Cu)		Dimensions (in.)						
Cat. no.	Max.	Min.	L	W	H	D	E	F	G
Slotted screw									
ADR6	#6 str.	#14	1 3/64	1/2	31/64	15/64	1/4	5/64	43/64
ADR2	#2 str.	#14	1 5/32	1/2	9/16	19/64	1/4	7/64	11/16
ADR11	1/0 str.	#14	1 15/32	5/8	25/32	7/16	1/4	3/16	27/32
ADR21	2/0 str.	#14	1 15/32	5/8	25/32	7/16	1/4	3/16	27/32
Socket screw									
ADR25	250	#6 str.	2	1	1 1/8	15/32	5/16	1/4	1
ADR30	300	#6 str.	2	1	1 1/8	15/32	5/16	1/4	1
ADR35	350	#6 str.	2 1/4	1 1/8	1 1/4	1/2	3/8	1/4	1 1/8
ADR50	500	#4 str.	2 13/16	1 1/2	1 9/16	3/4	3/8	5/16	1 19/32
ADR60	600	#2 str.	3 3/16	1 1/2	1 9/16	13/16	3/8	7/16	1 13/16
ADR6004*	600 (2) 250	#4 str. (2) 1/0 str.	2 13/16	1 9/32	1 13/16	5/8	3/8	5/16	1 1/2
ADR80	800	300	3 3/8	1 3/4	1 15/16	5/8	5/8	1/2	1 3/4
ADR99	1000	500	3 3/8	1 3/4	1 15/16	5/8	5/8	1/2	1 3/4

Diagrams



* Not UL listed or CSA certified.

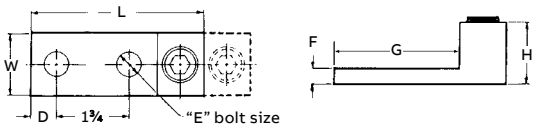


- UL 486B tested, AL9CU rated
- Slotted screw on lugs through 2/0 str.
- 5/16" socket screw on sizes 250 through 350 kcmil
- 3/8" hex socket on sizes 500 kcmil and above

TYPE ADR – ALCÜL SINGLE-CONDUCTOR, TWO-HOLE MOUNT*

	Conductor range AWG or kcmil (Al or Cu)		Dimensions (in.)						
Cat. no.	Max.	Min.	L	W	H	D	E	F	G
ADR35-12#	350	6 str.	4 1/4	1 1/4	1 3/8	5/8	1/2	5/16	3
ADR60-12D	600	2 str.	5 3/4	1 1/2	1 1/2	5/8	1/2	3/8	3 1/2
ADR80-12D	800	300	5 3/4	1 3/4	1 7/8	5/8	1/2	9/16	3
ADR99-12D	1,000	500	5 3/4	1 3/4	1 7/8	5/8	1/2	9/16	2 7/8

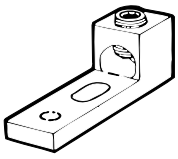
Diagrams



* NEMA spacing: 1 3/4" centers
# UL listed. Connectors accommodating conductors 600 kcmil and larger have double row of set screws (D suffix).

Dual-rated mechanical connectors

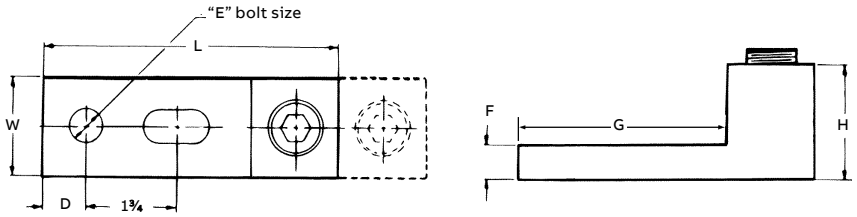
Type ADR – ALCÜL™ single-conductor, switchgear mount and two-conductor, one-hole mount



TYPE ADR – ALCÜL™ SINGLE-CONDUCTOR, SWITCHGEAR MOUNT*

	Conductor range (AWG or kcmil, Al or Cu)		Dimensions (in.)						
Cat. no.	**Max.**	**Min.**	**L**	**W**	**H**	**D**	**E**	**F**	**G**
ADR25-12S	250	3/0 str.	3	1	13/16	1/2	3/8	1/4	2
ADR35-12S	350	4 str.	4 1/8	1 1/8	1 1/4	23/32	1/2	5/16	3
ADR50-12S	500	400	4 11/16	1 1/4	1 9/16	23/32	1/2	7/16	3 5/16
ADR80-12DS	800	300	6 3/16	1 5/8	1 7/8	23/32	1/2	9/16	3 7/16
ADR99-12DS	1,000	350	6 3/16	1 5/8	1 7/8	23/32	1/2	9/16	3 7/16

Diagrams



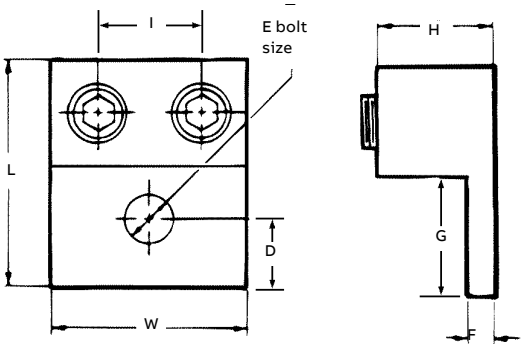
* NEMA spacing: 1¾" centers except ADR25-12S: 1" centers.
Connectors accommodating conductors 600 kcmil and larger have double row of set screws (D suffix).



TYPE ADR – ALCÜL TWO-CONDUCTOR, ONE-HOLE MOUNT

	Conductor range (AWG or kcmil, Al or Cu)		Dimensions (in.)							
Cat. no.	**Max.**	**Min.**	**L**	**W**	**H**	**D**	**E**	**F**	**G**	**I**
ADR11-21	1/0 Str.	#14	1 15/32	1 7/32	25/32	7/16	1/4	3/16	27/32	35/64
ADR21-21*	2/0 Str.	#14	1 15/32	1 1/4	25/32	27/64	1/4	3/16	27/32	21/32
ADR25-21	250	#6 str.	2 9/16	1 41/64	1 3/16	7/8	3/8	1/4	1 9/16	13/16
ADR35-21	350	#6 str.	2 7/8	1 59/64	1 1/4	7/8	1/2	1/4	1 3/4	61/64
ADR60-21	600	#2 str.	3 3/16	2 13/32	1 9/16	5/8	1/2	7/16	1 13/16	1 7/32
ADR80-21	800	300	3 3/8	3 3/16	1 15/16	7/8	5/8	1/2	1 3/4	1 5/8
ADR99-21	1000	500	3 3/8	3 3/16	1 15/16	7/8	5/8	1/2	1 3/4	1 5/8

Diagrams



* Not CSA certified. UL® 486B, AL9CU

Dual-rated mechanical connectors

Type ADR – ALCÜL™ two- and three-conductor, two-hole mount



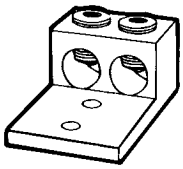


Fig. 1

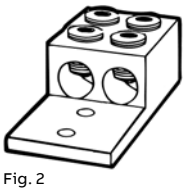
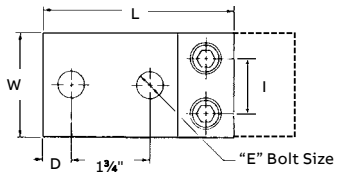


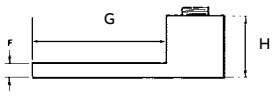
Fig. 2

TYPE ADR – ALCÜL TWO-CONDUCTOR, TWO-HOLE MOUNT*

		Conductor range (AWG or kcmil, Al or Cu)		Dimensions (in.)							
Cat. no.	Fig.	Max.	Min.	L	W	H	D	E	F	G	I
ADR35-22	1	350	6 str.	4 1/4	2 19/64	1 3/8	5/8	1/2	5/16	3	1 7/32
ADR60-22D**	2	600	2 str.	5 1/2	2 3/4	1 1/2	5/8	1/2	3/8	3 1/16	1 7/16
ADR80-22D**	2	800	300	5 3/4	3	1 7/8	5/8	1/2	9/16	3	1 13/16
ADR99-22D	2	1,000	500	5 3/4	3 1/2	1 7/8	5/8	1/2	9/16	3	1 13/16

Diagrams





* NEMA spacing: 1¾" centers. ** ADR60-22D and ADR80-22D have six mounting holes.
Connectors accommodating conductors 600 kcmil and larger have double row of set screws (D suffix).
UL 486B, AL9CU



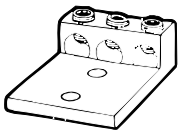


Fig. 1

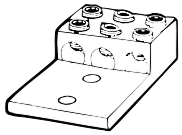
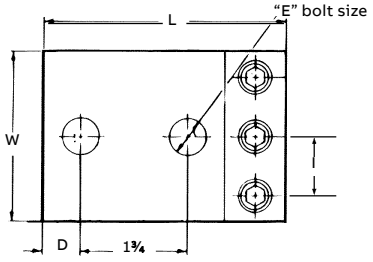


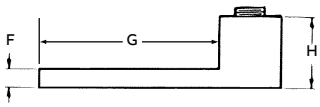
Fig. 2

TYPE ADR – ALCÜL THREE-CONDUCTOR, TWO-HOLE MOUNT*

		Conductor range (AWG or kcmil, Al or Cu)		Dimensions (in.)							
Cat. no.	Fig.	Max.	Min.	L	W	H	D	E	F	G	I
ADR02-32	1	2 str.	14 AWG	2 3/16	1 5/8	5/8	1 1/32	5/16	3/16	1 11/16	9/16
ADR11-32	1	1/0 str.	14 AWG	2 29/32	2	7/8	1 1/32	3/8	1/4	2 5/32	45/64
ADR31-32	1	3/0 str.	6 str.	4	2 13/16	1 3/16	5/8	1/2	5/16	3	31/32
ADR25-32	1	250	6 str.	4 3/16	2 13/16	1 1/4	5/8	1/2	1/4	3 1/16	31/32
ADR35-32	1	350	6 str.	4 3/16	3 3/16	1 1/4	5/8	1/2	1/4	3 1/16	1 1/32
ADR50-32	1	500	4 str.	4 11/16	3 3/4	1 9/16	5/8	1/2	7/16	3 5/16	1 1/4
ADR60-32D	2	600	2 str.	5 5/16	3 3/4	1 5/8	5/8	1/2	7/16	3 1/16	1 7/16
ADR80-32	2	800	300	5 5/8	3 27/32	1 5/8	5/8	1/2	7/16	3 1/8	1 9/16
ADR99-32	2	1,000	500	6 3/16	4 3/4	1 7/8	5/8	1/2	9/16	3 7/16	1 41/64

Diagrams





* NEMA spacing: 1¾" centers except ADR02-32 (7/8" centers) and ADR11-32 (1" centers).
Connectors accommodating conductors 600 kcmil and larger have double row of set screws (D suffix).
UL 486B, AL9CU

Dual-rated mechanical connectors

Type ADR – ALCÜL™ three- and four-conductor, four-hole mount



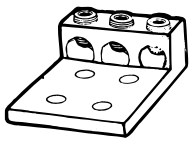


Fig. 1

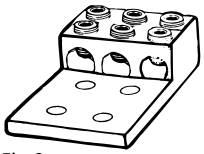
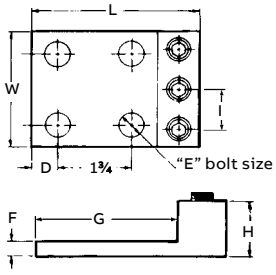


Fig. 2

TYPE ADR – ALCÜL THREE-CONDUCTOR, FOUR-HOLE MOUNT**

			Conductor range (AWG or kcmil, Al or Cu)		Dimensions (in.)							
	Cat. no.	Fig.	Max.	Min.	L	W	H	D	E	F	G	I
Diagrams	ADR02-34	1	2 str.	14	2 3/16	1 5/8	5/8	11/32	5/16	3/16	1 11/16	9/16
	ADR11-34	1	1/0 str.	14	2 29/32	2	7/8	11/32	3/8	1/4	2 5/32	45/64
	ADR31-34	1	3/0 str.	6 str.	3 **27/32**	2 **3/8**	1 **1/8**	5/8	1/2	5/16	3	31/32
	ADR25-34*	1	250	6 str.	4 **1/8**	2 13/16	1 1/4	5/8	1/2	1/4	3	31/32
	ADR35-34*	1	350	6 str.	4 **1/8**	3	1 1/4	5/8	1/2	1/4	3	1 1/32
	ADR50-34*	1	500	2 str.	4 **7/32**	3 3/4	1 9/16	5/8	1/2	7/16	3	1 1/4
	ADR60-34D	2	600	2 str.	5 **9/16**	3 **3/4**	1 **5/8**	5/8	1/2	3/8	3 1/16	1 7/16
	ADR80-34*	2	800	300	5 **3/4**	4 **9/16**	1 **15/16**	5/8	1/2	1/2	3	1 9/16
	ADR99-34*	2	1,000	500	6 3/16	4 3/4	1 7/8	5/8	1/2	9/16	3 7/16	1 41/64



* UL® listed.
** NEMA spacing: 1¾" centers except ADR02-34 (7/8" centers) and ADR11-34 (1" centers).
Connectors accommodating conductors 600 kcmil and larger have double row of set screws.
UL 486B, AL9CU



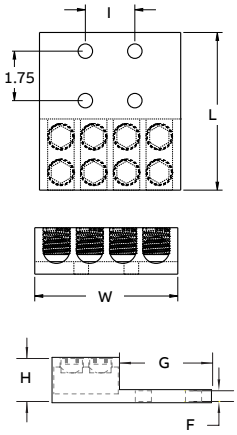
Fig. 1



Fig. 2

TYPE ADR – ALCÜL FOUR-CONDUCTOR, FOUR-HOLE MOUNT*

		Conductor range (AWG or kcmil, Al or Cu)					Mounting		
	Cat. no.	Max.	Min.	L	W	H	holes	G	F
Diagrams	ADR25-44	250	#6	4.13	3.75	1.25	1.75	3.00	0.31
	ADR35-44	350	#6	4.31	3.94	1.38	1.75	3.00	0.31
	ADR60-44D	600	#2	5.58	5.00	1.62	1.75	3.25	0.38
	ADR80-44D	800	350	5.75	6.00	1.93	1.75	3.63	0.50



* NEMA spacing: 1¾" centers.
Connectors accommodating conductors 600 kcmil and larger have double row of set screws (D suffix).

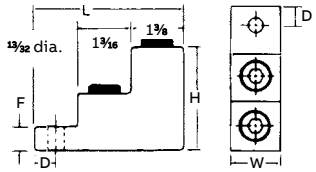
Dual-rated mechanical connectors

Type ASL – ALCÜL two-conductor, one-hole mount
and two- and three-conductor, two-hole mount



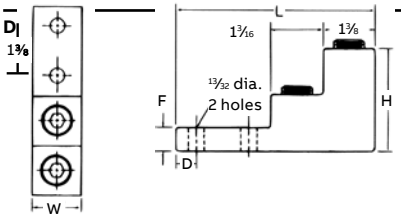
TYPE ASL – ALCÜL TWO-CONDUCTOR, ONE-HOLE MOUNT

		Conductor range (AWG or kcmil, Al or Cu)		Dimensions (in.)					Mtg. hole
	Cat. no.	Max.	Min.	L	W	H	D	F	dia.
Diagrams	ASL30-21	300	6 str.	3	1	2	3/8	5/16	5/16





TYPE ASL – ALCÜL TWO-CONDUCTOR, TWO-HOLE MOUNT

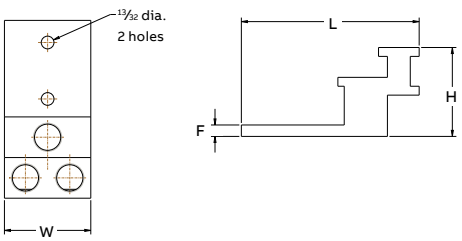


	Conductor range (AWG or kcmil, Al or Cu)		Dimensions (in.)				
Cat. no.	Max.	Min.	L	W	H	D	F
ASL60-22	600	2 str.	5 29/32	1 1/2	3 3/4	3/4	3/8
ASL75-22	750	3/0 str.	5 29/32	1 9/16	3 3/4	3/4	3/8

UL® 486B
AL9CU

TYPE ASL – ALCÜL THREE-CONDUCTOR, TWO-HOLE MOUNT

		Conductor range (AWG or kcmil, Al or Cu)		Dimensions (in.)			
	Cat. no.	Max.	Min.	L	W	H	F
Diagrams	ASL60-32	600	2 str.	5.51	2.68	2.75	0.35



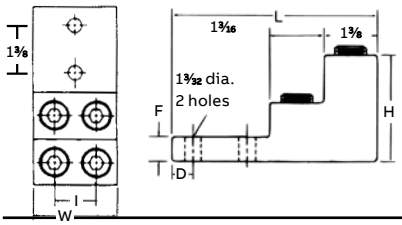
Dual-rated mechanical connectors

Type ASL – ALCÜL four-conductor, two-hole mount and type ASR – ALCÜL™ and Type BX – ALCÜL



TYPE ASL – ALCÜL FOUR-CONDUCTOR, TWO-HOLE MOUNT

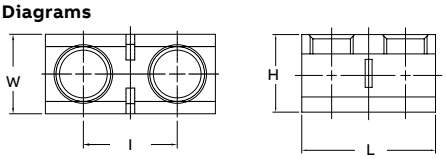
		Conductor range (AWG or kcmil, Al or Cu)		Dimensions (in.)					
	Cat. no.	Max.	Min.	L	W	H	D	F	I
Diagrams	ASL60-42	600	2 str.	4 29/32	2 5/8	3	3/4	3/8	1 7/32
	ASL75-42	750	3/0 str.	4 29/32	2 13/16	3	3/4	3/8	1 5/16





TYPE ASR – ALCÜL SPLICER REDUCER WITH SOLID BARRIER WIRE STOP

	ABB	Conductor range (AWG or kcmil, Al or Cu)		Dimensions (In.)				
	cat. no.	Max.	Min.	L	W	H	I	Screws
Diagrams	ASR0214*	#2	#14	1.37	0.50	0.56	0.82	2
	ASR1114*	1/0	#14	1.90	0.75	0.75	0.68	2
	ASR2506	250	#6	2.18	0.81	1.00	1.12	2
	ASR3506	350	#6	2.63	1.12	1.19	1.52	2
	ASR7525**	750	250	6.25	1.62	1.75	1.93	4



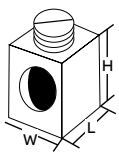
* Slotted screws. ** Two set screws per end. Not CSA certified. UL® 486B AL9CU



- Features anti-rotational boss
- UL486B recognized (90 °C rating)

TYPE BX – ALCÜL RECTANGULAR CONNECTORS

		Conductor range (AWG or kcmil, Al or Cu)		Style and size of boss (in.)	Boss hole tapped	Dimensions (in.)		
	Cat. no.	Max.	Min.			L	W	H
Diagram	BX0214	2	14 Cu 12 Al	Square 0.229 in.	10-32	15/32	15/32	9/16
	BX1114	1/0	14 Cu 12 Al	Square 0.229 in.	10-32	5/8	17/32	39/64

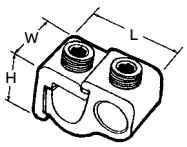


Dual-rated mechanical connectors

Type GP, Type GT, Type TC and tightening torque values for aluminum dual-rated socket screw connectors



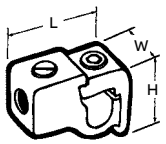
TYPE GP – ALUMINUM DUAL-RATED MECHANICAL PARALLEL TAP CONNECTORS

		Conductor range (AWG or kcmil, Al or Cu)		Dimensions (in.)		
	Cat. no.	Main	Tap	W	L	H
Diagram	GP-2*	2–12 str.	4–14	5/8	1 3/8	7/8
	GP-0	1/0–2	1/0–14	3/4	1 3/4	1
	GP-250-0	250–1/0	1/0–14	1 1/16	2 1/32	1 5/16
	GP-250	250–1/0	250–6	1 1/16	2 9/32	1 5/16
	GP-350	350–4/0	350–6	1 1/4	2 9/16	1 7/16
	GP-500	500–350	500–2	1 3/8	3 1/8	1 3/4
	GP-750	750–500	500–2	1 1/2	3 3/8	2

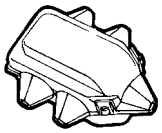
* Slotted screw, tap side. To include insulating cover, add suffix WC.



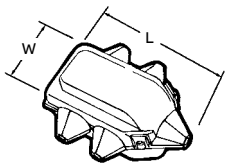
TYPE GT – ALUMINUM DUAL-RATED MECHANICAL PARALLEL TAP CONNECTORS

		Conductor range (AWG or kcmil, Al or Cu)		Dimensions (in.)		
	Cat. no.	Main	Tap	W	L	H
Diagram	GT-2*	2–12 str.	4–14	5/8	1 3/8	7/8
	GT-0	1/0–2	1/0–14	3/4	1 3/4	1
	GT-250-0	250–1/0	1/0–14	1 1/16	2 9/32	1 5/16
	GT-250	250–1/0	250–6	1 1/16	2 9/32	1 5/16
	GT-350	350–4/0	350–6	1 1/4	2 9/16	1 7/16
	GT-500	500–350	500–2	1 3/8	3 1/8	1 3/4
	GT-750	750–500	500–2	1 1/2	3 3/8	2

* Slotted screw, tap side. To include insulating cover, add suffix WC.



TYPE TC – INSULATING COVERS FOR GP-GT

		Dimensions (in.)			Use with
	Cat. no.	L	W	H	connector
Diagram	TC-2	2 1/8	1 3/4	1 1/16	GP-2, GT-2
	TC-10	2 1/2	2 13/32	1 1/4	GP-0, GT-0
	TC250350	3 1/8	2 17/32	1 19/32	GP-250, GT-250, GP-350, GP-250-0, GT-250-0, GT-350
	TC-500	4 1/4	3 1/8	2 1/16	GP-500, GT-500
	TC-750	4 5/8	3 7/8	2 1/2	GP-750, GT-750

Color of all covers is black.

TIGHTENING TORQUE VALUES FOR ALUMINUM DUAL-RATED SOCKET SCREW CONNECTORS

AWG or circular mil size	Tightening torque in in.-lb.		AWG or circular mil size	Tightening torque in in.-lb.	
	Screw driver	Wrench		Screw driver	Wrench
12	20	75	4/0	–	200
10	20	75	250	–	250
8	20	75	350	–	250
6	35	100	500	–	300
4	35	100	600	–	300
2	50	125	700	–	300
1	50	125	750	–	300
1/0	50	150	800	–	400
2/0	50	150	1,000	–	400
3/0	–	200	–	–	–

08

Copper mechanical connectors

Copper mechanical connectors	
Type L – Single-conductor, one- and two-hole mount	48
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Copper mechanical connectors

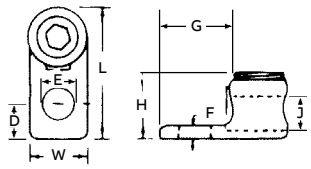
Type L, Type TL and Type S



- Cat. nos. L400 and L650 cast from high-strength bronze alloy
- Cat. nos. L35, L70, L125 and L250 cold forged from pure electrolytic copper with 99% conductivity

TYPE L – SINGLE-CONDUCTOR, ONE-HOLE MOUNT

	Cat. no.		Conductor range (AWG or kcmil)		Dimensions (in.)							
	Socket	Hex	Max.	Min.	L	W	H	F	D	J	E	G
Diagrams	L35*	–	8 str.	14 sol.	13/16	3/8	3/8	3/32	13/64	11/64	13/64	1/2
	L70*	–	4 str.	14 sol.	1 1/8	17/32	35/64	3/32	9/32	9/32	9/32	21/32
	L125BB	L125H	1/0 str.	8 sol.	1 1/2	47/64	3/4	3/32	3/8	27/64	21/64	27/32
	L250	L250H	250	6 str.	1 61/64	15/16	1 1/16	1/8	29/64	5/8	13/32	1 3/32
	L400BB	L400H	500	4/0 str.	3	1 13/32	1 15/32	9/32	5/8	7/8	9/16	1 5/8
	L650	L650H	1,000	500	4	2	2 3/16	17/32	3/4	1 1/4	9/16	2



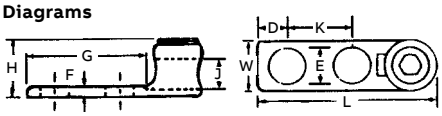
* Sizes L35 and L70 have screwdriver slot head screws only. UL® 486A.



- For use where large contact area is required for more secure mounting
- Cast from high-strength bronze alloy

TYPE L – SINGLE-CONDUCTOR, TWO-HOLE MOUNT

	Cat. no.		Conductor range (AWG or kcmil)		Dimensions (in.)								
	Socket	Hex	Max.	Min.	L	W	H	F	D	K	E	G	J
Diagrams	L1252	L1252H	1/0 str.	4 str.	2 13/16	25/32	13/16	3/16	7/16	1	11/32	2	27/64
	L2502	L2502H	250	1/0 str.	3	1 1/16	1 1/32	15/64	7/16	1	13/32	1 7/8	5/8
	L4002	L4002H	500	4/0 str.	3 3/8	1 13/32	1 15/32	5/16	7/16	1	13/32	1 15/16	57/64
	L6502	L6502H	1000	500	4 15/16	2	2	3/8	9/16	1 1/2	9/16	2 3/4	1 1/4



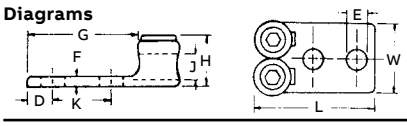
UL 486A



- Conveniently terminates parallel conductors

TYPE TL – TWO-CONDUCTOR, TWO-HOLE MOUNT

	Cat. no.		Conductor range (AWG or kcmil)		Dimensions (in.)								
	Socket	Hex	Max.	Min.	L	W	H	F	D	K	E	G	J
Diagrams	TL250	TL250H	250	1/0 str.	4 5/16	1 7/8	1 1/16	9/32	1 3/4	5/8	9/16	3 3/16	5/8
	TL400	TL400H	500	4/0 str.	4 3/4	2 9/16	1 9/16	13/32	1 3/4	11/16	9/16	3	7/8
	TL650	TL650H	1,000	500	5 9/16	3 1/4	2 3/16	9/16	1 3/4	5/8	9/16	3 3/8	1 1/4



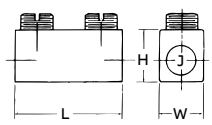
Four-hole NEMA tang on TL650. UL 486A.



- Cast of high-strength copper alloy
- Plated steel socket head set screws

TYPE S – COPPER END-TO-END SPLICE CONNECTOR

		Conductor range (AWG or kcmil)		Dimensions (in.)				
	Cat. no.	Max.	Min.	L	W	H	J	I
Diagrams	S100BB	1 str.	4 sol.	1 11/16	5/8	11/16	3/8	15/16
	S225BB*	4/0 str.	1 str.	2 3/16	27/32	31/32	9/16	1 3/16
	S400BB	500	4/0 str.	2 7/8	1 3/16	1 5/16	7/8	1 5/8



* Not UL listed.

Copper mechanical connectors

Direct-burial splice kits, Type STC and Type BTC


DBSK82


UFSK148DB

- Fast, easy installation.
- Includes outer heat-shrink tubing insulator with adhesive sealant for rugged, watertight protection
- For underground feeder (UF) cable, UFSK148DB's four-in-one connector supports four-conductor, three-phase-plus-neutral or single-phase wiring systems
- For non-UF cable, DBSK82 offers easy-to-install, one-piece, aluminum alloy connector

DIRECT-BURIAL SPLICE KITS

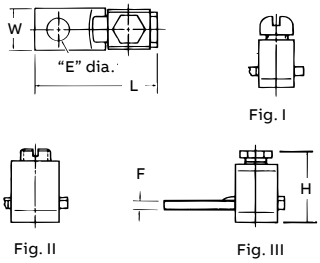
Cat. no.	Description	Wire range (AWG)	Std. pkg. qty.
UFSK148DB	UF direct-burial splice kit	#14–#8	10
DBSK82	Direct-burial splice kit (non-UF)	#8–#2	10



- Uniquely designed pressure bar and notched V-bottom collar provide vise-like grip between conductor and terminal
- Made of electrolytic seamless copper with zinc-plated steel screws
- UL 486A tested for copper conductor

TYPE STC – COPPER SINGLE-CONDUCTOR, ONE-HOLE MOUNT LUG WITH STRAIGHT TANG

		Fig.	Conductor range (AWG or kcmil, Cu)		Dimensions (in.)					
	Cat. no.	no.	Max.	Min.	L	W	H	F	E	D
Diagrams	STC1014*	1	#10	#14	1	5/16	1/2	5/64	5/32	3/16
	STC0614	2	#6 str.	#14	1 9/64	3/8	11/16	5/64	13/64	7/32
	STC0414	2	#4 str.	#14	1 1/4	1/2	27/32	3/32	17/64	1/4
	STC0208	3	#2 str.	#8 str.	1 15/32	1/2	31/32	3/32	17/64	1/4
	STC1102	3	1/0 str.	#2 str.	1 15/16	5/8	1 1/4	1/8	17/64	7/16
	STC3104	3	3/0 str.	#4 str.	2 1/4	3/4	1 9/16	1/8	13/32	7/16
	STC4102	3	4/0 str.	#2 str.	2 3/8	1	1 21/32	1/8	11/32	1/2
	STC3511	3	350	1/0 str.	3 1/4	1	1 5/8	3/16	13/32	5/8
	STC5011	3	500	1/0 str.	3 7/8	1 1/2	1 13/16	3/16	13/32	15/16
	STC9960	3	1,000	600	5	2	2 5/8	1/4	17/32	1 1/8



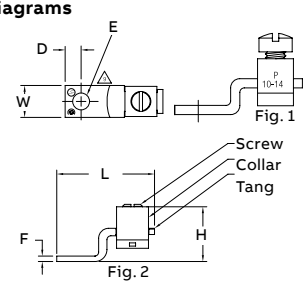
* Not CSA certified.



Mechanical lug for use with copper conductors.

TYPE BTC – COPPER SINGLE-CONDUCTOR ONE-HOLE MOUNT LUG WITH OFFSET TANG

		Fig.	Conductor range (AWG or kcmil, Cu)		Dimensions (in.)					
	Cat. no.	no.	Max.	Min.	L	W	H	F	E	D
Diagrams	BTC1014*	1	#10	#14	1	5/16	43/64	5/64	5/32	3/16
	BTC0614	2	#6 str.	#14	1 3/32	3/8	25/32	5/64	13/64	7/32
	BTC0208	2	#2 str.	#8 str.	1 15/32	1/2	27/32	3/32	17/64	1/4
	BTC1102	2	1/0 str.	#2 str.	1 25/32	5/8	1 13/32	1/8	17/64	7/16
	BTC3104	2	3/0 str.	#4 str.	2 3/64	3/4	1 9/16	1/8	13/32	7/16
	BTC4102	2	4/0 str.	#2 str.	2 9/16	1	1 61/64	1/8	11/32	1/2
	BTC3511	2	350	1/0 str.	3 1/4	1	2 1/2	3/16	13/32	5/8
	BTC5011	2	500	1/0 str.	4 1/4	1 1/2	2 21/32	3/16	13/32	15/16
	BTC9960	2	1,000	600	4 3/4	2	3 9/16	1/4	17/32	1 1/8



* Not CSA certified.

Copper mechanical connectors

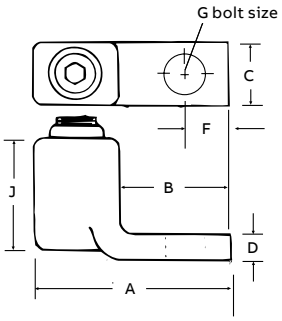
LOCKTITE® one-hole lugs and one-hole flag-type lugs



Only nine lug sizes fit cables from #14 to 1000 kcmil.

- Easily installed with key wrench
- Saddle and cable socket make direct, all-around, low-resistance contact with cable
- Convenient peephole permits easy inspection
- For use with code copper conductor (600 V)

LOCKTITE ONE-HOLE LUGS

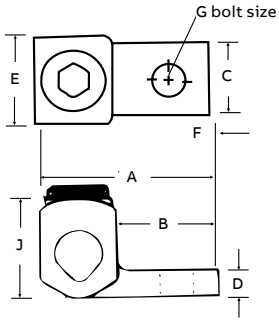
		Cable size	Dimensions (in.)						
	Cat. no.	(AWG or kcmil)	G	A	B	C	D	J	F
Diagrams	31003†	14–8	1/4	1 1/8	9/16	1/2	1/8	17/32	9/32
	31005-TB†	8–4	1/4	1 1/8	5/8	1/2	1/8	17/32	9/32
	31007	4–1	1/4	1 5/8	13/16	5/8	7/32	1	11/32
	31009	1–2/0	3/8	1 15/16	1	13/16	1/4	1 3/16	7/16
	31011	2/0–4/0	3/8	2 3/8	1 1/4	1	9/32	1 13/32	17/32
	31013	4/0–300	1/2	2 3/4	1 1/2	1 3/16	5/16	1 17/32	5/8
	31015	300–500	1/2	3 1/16	1 11/16	1 3/8	11/32	1 13/16	3/4
	31017	500–750	1/2	3 25/32	2 3/16	1 5/8	13/32	2 1/8	1
	31019	750–1000	5/8	4 5/16	2 15/32	1 7/8	15/32	2 11/32	1 3/16

†With filister head screw. All others, hex socket screws.



- For use with code copper conductor (600 V)

LOCKTITE ONE-HOLE FLAG-TYPE LUGS

		Cable size	Dimensions (in.)							
	Cat. no.	(AWG)	G	A	B	C	D	J	F	E
Diagrams	31005-AL†	8–4	1/4	1 1/8	5/8	1/2	1/8	17/32	9/32	1/2
										

†With filister head screw.
Bolt holes and spacings listed are standard, but lugs with blank tongues can be furnished.
For torque requirements, see page 55.

Copper mechanical connectors

LOCKTITE® one-hole 90° upright lugs, two-hole lugs and two-hole NEMA-drilled lugs



- For use with code copper conductor (600 V)
- All the outstanding LOCKTITE lug features – plus two-bolt capacity

LOCKTITE ONE-HOLE 90° UPRIGHT LUGS

Cat. no.	Cable size (AWG)	Dimensions (in.) G	A	B	C	D	J	F
31005-UAL†	8–4	¼	1⅛	⅝	½	⅛	½	9/32
31007-UAL	4–1	¼	1 21/32	13/16	⅝	7/32	13/16	11/32
31009-UAL	1–2/0	⅜	2 1/32	1	13/16	¼	15/16	7/16
31011-UAL	2/0–4/0	⅜	2½	1¼	1	9/32	1⅛	17/32

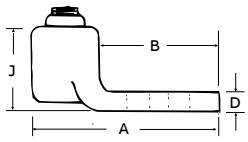
†With filister head screw. All others, hex head screws.
Bolt holes and spacings listed are standard, but lugs with blank tongues can be furnished.

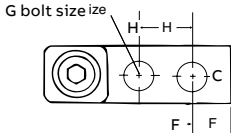


- Easy installation
- High conductivity
- Wide cable range
- Long tongue adapted for two bolts
- For use with code copper conductor (600 V)

LOCKTITE TWO-HOLE LUGS

Diagrams





Cat. no.	Cable size (AWG or kcmil)	Dimensions (in.) G	A	B	C	D	J	F	H
32003†	14–8	¼	1 11/16	1¼	½	⅛	15/32	9/32	⅝
32005†	8–4	¼	1¾	1¼	½	⅛	17/32	9/32	⅝
32007	4–1	¼	2¼	1 7/16	⅝	7/32	⅞	9/32	¾
32009	1–2/0	⅜	2⅞	1 15/16	13/16	¼	13/32	7/16	1
32011	2/0–4/0	⅜	3⅛	2	1	9/32	15/16	7/16	1
32013	4/0–300	⅜	3⅜	2⅛	1 3/16	5/16	1 9/16	7/16	1
32015	300–500	⅜	3½	2⅛	1⅜	11/32	1 27/32	7/16	1
32017	500–750	½	4 19/32	3	1¾	13/32	2⅛	9/16	1½
32019	750–1,000	½	4 27/32	3	1⅞	15/32	2 11/32	9/16	1½

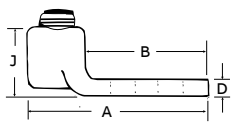
†With filister head screw. All others, hex head screws.
For torque requirements, see page 55.

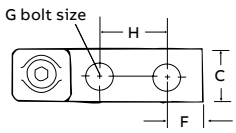


- Furnished with bolt holes and spacings to fit equipment with NEMA-type connector mounting pads

LOCKTITE TWO-HOLE NEMA-DRILLED LUGS

Diagrams



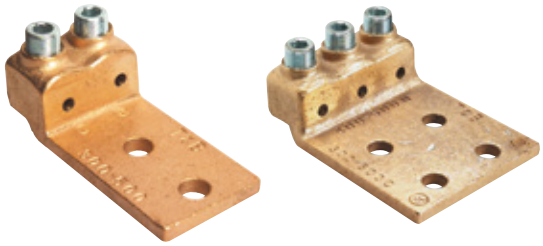


Cat. no.	Cable size (AWG or kcmil)	Dimensions (in.) G	A	B	C	D	J	F	H
32207	4–1	⅜	2 13/16	2	¾	7/32	⅞	7/16	1
32209	1–2/0	½	3 15/16	3	1	¼	1 1/16	9/16	1¾
32211	2/0–4/0	½	4⅛	3	1	9/32	1 9/32	9/16	1¾
32213	4/0–300	½	4⅜	3	1 3/16	5/16	1 15/32	9/16	1¾
32215	300–500	½	4⅞	3½	1⅜	11/32	1 13/16	9/16	1¾
32217	500–750	½	5 3/32	3½	1¾	13/32	2⅛	9/16	1¾
32219	750–1,000	½	5¼	3½	3	15/32	2⅛	9/16	1¾

For torque requirements, see page 55.

Copper mechanical connectors

LOCKTITE® double- and triple-barrel NEMA-drilled lugs for 600 V applications



All the same features as the standard LOCKTITE lug – with two or three barrels.

- Screw tightening
- Serrated saddle
- Built-in lockwasher
- For use with code copper conductor (600 V)

LOCKTITE DOUBLE- AND TRIPLE-BARREL NEMA-DRILLED LUGS FOR 600 V APPLICATIONS

Cat. no.	Cable size (AWG or kcmil)	Fig.	Bolt size (in.)	Dimensions (in.)							
				A	B	C	D	E	F	H	J
32003BD†	14–8	A	1/4	2 3/16	1 3/4	5/8	1/8	11/16	9/32	5/8	15/32
32005BD†	8–4	A	1/4	2 1/2	2	1	1/8	1	9/32	5/8	17/32
32007BD	4–1	A	3/8	2 13/16	2	1 1/4	7/32	1 1/4	7/16	1	29/32
32009BD	1–2/0	A	1/2	4 7/16	3 1/2	1 1/2	1/4	1 9/16	5/8	1 3/4	13/32
32011BD	2/0–4/0	A	1/2	4 5/8	3 1/2	1 3/4	9/32	1 3/4	5/8	1 3/4	15/16
32013BD	4/0–300	A	1/2	4 3/4	3 1/2	2	5/16	2 1/8	5/8	1 3/4	1 9/16
32015BD	300–500	A	1/2	5 3/8	3 15/16	2 1/2	11/32	2 1/2	5/8	1 3/4	1 13/16
32017BD	500–700	B	1/2	5 19/32	4	4	13/32	2 15/16	5/8	1 3/4	2 1/8
32019BD	750–1000	B	1/2	5 27/32	4	4	15/32	3 1/4	5/8	1 3/4	2 11/32
32011TB	2/0–4/0	C	1/2	4 5/8	3 3/8	2 1/2	9/32	2 3/4	5/8	1 3/4	15/16
32013TB	4/0–300	C	1/2	4 3/4	3 1/2	3	5/16	3 1/4	5/8	1 3/4	1 17/32
32015TB	300–500	D	1/2	5 3/8	4	4	11/32	3 3/4	5/8	1 3/4	1 13/16
32017TB	500–750	D	1/2	5 19/32	4	4	13/32	4 3/8	5/8	1 3/4	2 1/8
32019TB	750–1,000	D	1/2	5 27/32	4	4	15/32	4 13/16	5/8	1 3/4	2 11/32

Diagrams

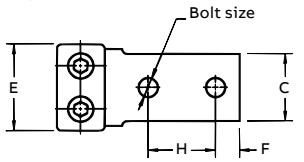


Fig. A

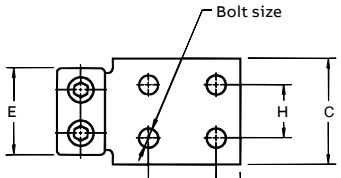


Fig. B

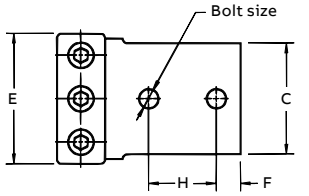


Fig. C

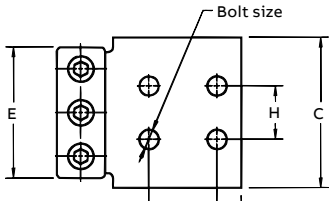


Fig. D

†With filister head screw.

For torque requirements, see page 55.

Copper mechanical connectors

LOCKTITE® two-way connectors and tee-parallel taps

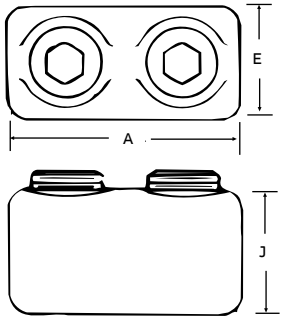


Join two cables end-to-end.

- Cables held by saddle and tightened by screws
- Built-in lockwashers
- For use with code copper conductor (600 V)

LOCKTITE TWO-WAY CONNECTORS

		Cable size	Dimensions (in.)		
	Cat. no.	(AWG or kcmil)	A	E	J
Diagrams	32503†	14 sol.–8 sol.	1 1/8	3/8	15/32
	32505†	8 sol.–4 str.	1 3/8	1/2	17/32
	32507	4 sol.–1 str.	1 5/8	5/8	27/32
	32509	1 sol.–2/0	1 7/8	3/4	1 1/32
	32511	2/0–4/0	2 5/16	15/16	1 1/4
	32513	4/0–300	2 9/16	1 1/8	1 1/2
	32515	300–500	2 3/4	1 1/4	1 25/32
	32517	500–750	3 1/8	1 1/2	2 1/16
	32519	750–1,000	3 7/8	1 11/16	2 9/32



†With filister head screw. For torque requirements, see page 55.

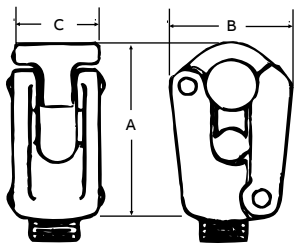


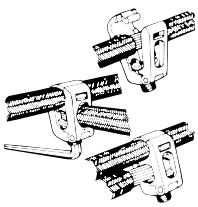
Designed for easy, one-person installation.

- Tap hangs on main while branch is inserted
- Simply tighten screw to lock in place
- For use with code copper conductor (600 V)

LOCKTITE TEE-PARALLEL TAPS

		Cable size (AWG or kcmil)		Dimensions (in.)		
	Cat. no.	Main	Branch	A	B	C
Diagrams	35011	300–500	2–3/0	2 1/2	1 3/4	1 1/4
	35013	300–500	4/0–500	3 1/16	1 7/8	1 5/8
	35015	500–750	2–3/0	2 13/16	1 15/16	1 1/4
	35017	500–750	4/0–500	3 3/8	2 1/16	1 5/8
	35019	500–750	500–750	4	2 1/16	2 1/16





For torque requirements, see page 55.

Copper mechanical connectors

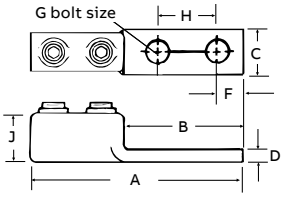
LOCKTITE® tandem-type two-hole NEMA-drilled lugs, ground bus taps and pigtail connectors



For stranded, solid, flexible and other types of cables.

- Each lug takes a range of wire sizes
- Bolt holes and spacings listed are standard
- For use with code copper conductor (600 V)

LOCKTITE TANDEM-TYPE TWO-HOLE NEMA-DRILLED LUGS

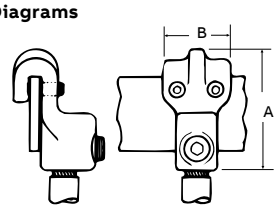
			Dimensions (in.)							
	Cat. no.	Cable size (AWG or kcmil)	G	A	B	C	D	J	F	H
Diagrams	32007TL	4–1	3/8	3 9/16	2	3/4	7/32	29/32	7/16	1
	32009TL	1–2/0	1/2	4 15/16	3	1	1/4	1 3/32	9/16	1 3/4
	32011TL	2/0–4/0	1/2	5 3/8	3	1	9/32	1 5/16	9/16	1 3/4
	32013TL	4/0–300	1/2	5 5/8	3	1 3/16	5/16	1 9/16	9/16	1 3/4
	32015TL	300–500	1/2	6 11/32	3 1/2	1 3/8	11/32	–	5/8	1 3/4
	32017TL	500–750	1/2	6 23/32	3 1/2	1 3/4	13/32	2 1/8	5/8	1 3/4



For easy installation in hard-to-reach places.

- Eliminate the need to drill holes in the ground bus
- Can be placed quickly at any location
- Install with only a key wrench
- Standard LOCKTITE lug grip securely holds tapping cable
- For use with code copper condutor (600 V)

LOCKTITE GROUND BUS TAPS FOR ¼" COPPER BUS BAR

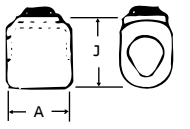
			Dimensions (in.)		
	Cat. no.	Wire size (AWG or kcmil)	A	B	Bus thickness (in.)
Diagrams	31207	8–4	2 1/4	1 3/4	1/4
	31208	4–1	2 9/16	1 3/4	1/4
	31209	1–2/0	2 3/4	1 3/4	1/4
	31210	2/0–4/0	2 3/4	1 3/4	1/4
	31211	4/0–300	2 7/8	1 3/4	1/4
	31212	300–500	3	1 3/4	1/4

For torque requirements, see page 55.



- For use with code copper conductor (600 V)

LOCKTITE PIGTAIL CONNECTORS

				Dimensions (in.)	
	Cat. no.	Wire size (AWG)	Cable fig.	A	J
Diagrams	31305	10–8	A	1/2	17/32
	31307	8–6	A	3/4	27/32
	31309	6–4	B	7/8	1 1/32
	31311	4–2	B	1 1/16	1 1/4
	31313	1–2/0	B	1 3/16	1 1/2
	31315	2/0–4/0	B	1 5/16	1 25/32

For torque requirements, see page 55.
Note:Order with hex head screws (available on all except 10–8 code size), add prefix H–catalog number.

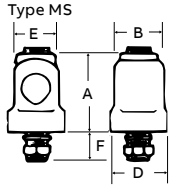
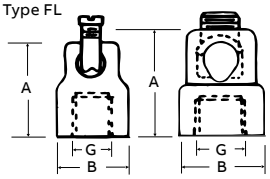
Copper mechanical conductors

LOCKTITE® stud connectors and LUG-IT one-hole lugs



- Fast, simple installation
- Convenient pigtail is easy to tape
- To order with hex head screws, add prefix H to catalog number
- Standard tapping shown in diagrams
- Other tapping to meet specific requirements available on request
- For use with code copper conductor (600 V)

LOCKTITE STUD CONNECTORS

		Male – Type MS						Female – Type FL					
			Dimensions (in.)							Dimensions (in.)			
	Cat. no.	Cable size (AWG or kcmil)	A	B	D	E	F	Stud size (in.)	Cat. no.	Cable size (AWG or kcmil)	Fig.	G	A	B
Diagrams	31007-T	4–1	1 3/8	25/32	7/8	5/8	3/4	3/8-16	31262†	8–4	A	3/8-16	1 1/16	5/8
Type MS	31009-T	1–2/0	1 5/8	7/8	1	3/4	3/4	3/8-16	31263	4–1	B	3/8-16	1 15/32	3/4
	31011-T	2/0–4/0	1 5/8	1 1/16	1 3/16	7/8	1	1/2-13	31265	4–1	B	1/2-13	1 15/32	3/4
	31013-T	4/0–300	1 7/8	1 3/16	1 3/8	1 1/16	1	1/2-13	31267	2/0–4/0	B	1/2-13	2 3/16	13/16
	31015-T	300–500	2 5/32	1 5/16	1 1/2	1 1/4	1	1/2-13						
Type FL														
														
Fig. A Fig. B														

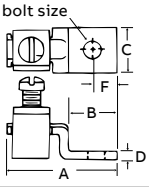
†With filister head screw.



Designed to grip cable firmly between its strong body and serrated copper tongue.

- Double laps at top give greater thread strength and lock screw when tightened
- Copper tongue makes a low-resistance terminal
- For use with code copper conductor (600 V)

LOCKTITE LUG-IT ONE-HOLE LUGS, OFFSET TONGUE

			Dimensions (in.)					
	Cat. no.	Cable size (AWG)	G	A	B	C	D	F
Diagrams	35301	14–6	#10	1 3/16	1/2	3/8	0.064	7/32
G bolt size	35401	8–2	1/4	1 7/16	5/8	1/2	0.081	1/4
	35501*†	4–2/0	1/4	1 13/16	13/16	3/4	0.101	3/8
	35601*†	1/0–4/0	3/8	2 17/32	1 3/32	1	0.128	1/2

* Aluminum body. †Hex head bolt. Add suffix G to above cat. nos. for lug connector with green screw for grounding identification.
For torque requirements, see table below.

ABB RECOMMENDED TIGHTENING TORQUE FOR COPPER CONNECTIONS

Size of conductor ranges (AWG)	Wrench torque (in.-lbs.)	Screw driver torque (in.-lbs.)
14–8	–	20
8–4	–	35
4–1	125	–
1–2/0	150	–
2/0–4/0	200	–

ABB RECOMMENDED TIGHTENING TORQUE FOR COPPER CONNECTIONS

Size of conductor ranges (AWG or kcmil)	Wrench torque (in.-lbs.)	Screw driver torque (in.-lbs.)
4/0–300	250	–
300–500	300	–
500–750	300	–
750–1,000	400	–

Copper mechanical conductors

LOCKTITE® cone screw lugs

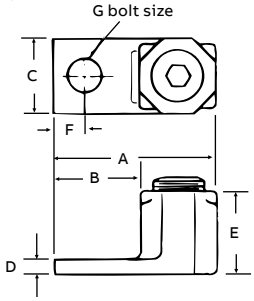


High pull-out strength and low resistance.

- Conically shaped screw compresses copper conductor so each strand is forced to carry its share of the load
- Exerts equal pressure on each conductor strand
- For use with code copper conductor (600 V)

LOCKTITE CONE SCREW LUGS

Diagrams



Cat. no.	Wire range (AWG or kcmil)	Dimensions (in.) G	A	B	C	D	E	F	Torque (in.-lbs.)
71003	14–8	#10	13/16	7/16	3/8	3/32	3/8	3/16	20*
71005	14–4	1/4	1 5/32	5/8	9/16	1/8	19/32	9/32	35*
71010	4–2/0	3/8	1 21/32	27/32	23/32	3/16	25/32	3/8	150
71014	2–4/0	3/8	1 7/8	29/32	15/16	3/16	31/32	3/8	200
71015	1–250	3/8	2 1/32	29/32	1	7/32	1	3/8	250
71020	2/0–500	1/2	2 3/4	1 1/4	1 11/32	9/32	1 15/32	9/16	300

Add suffix G to lug cat. no. 71003, 71005, 71010 and 71014 for lug with green screw for grounding identification. UL File No. E-9609. *Indicates screwdriver torque; all others indicate torque wrench.

Copper mechanical conductors

HINJON junior tee-parallel taps



The most economical, easiest to install, approved connector for large to small branch taps.

- All-around-grip jaws
- Automatically adjusts to size of main and branch
- Fast, simple installation with just a screwdriver or pliers
- Fitting can be easily taped

HINJON JUNIOR TEE-PARALLEL TAPS

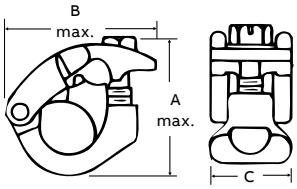
		Cable size (AWG or kcmil)		Dimensions (in.)		
	Cat. no.	Main	Branch	A	B	C
Diagrams	35107	8–4	14–8	$1\frac{1}{16}$	$\frac{7}{8}$	$\frac{5}{8}$
	35109	4–1/0	14–4	$1\frac{1}{4}$	1	$\frac{11}{16}$
	35111	1/0–4/0	14–4	$1\frac{3}{4}$	$1\frac{3}{8}$	$\frac{27}{32}$
	35112	1/0–4/0	8–1	$1\frac{5}{8}$	$1\frac{9}{16}$	$\frac{27}{32}$
	35115	300–500	14–4	$1\frac{7}{8}$	$1\frac{13}{16}$	1

ABB RECOMMENDED TIGHTENING TORQUE

Size of conductor ranges (AWG or kcmil)	Wrench torque (in.-lbs.)	Screw driver torque (in.-lbs.)
14–8	20	20
14–4	35	35
4–2/0	150	–
2–4/0	200	–
1–250	250	–
2/0–500	300	–

09

Clamp connectors

Clamp connectors	
XT™ clamp for tee tap, cross, parallel and end-to-end connectors	60
DLC™ single U-bolt aluminum fittings	61

Clamp connectors

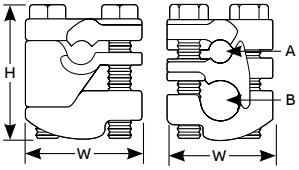
XT™ clamp for tee tap, cross, parallel and end-to-end connectors



Connectors for a variety of applications.

- Copper alloy castings provide high strength for heavy-duty applications
- Silicon-bronze bolts built to handle frequent moves, adds and changes

XT CLAMP FOR TEE TAP, CROSS, PARALLEL AND END-TO-END CONNECTORS

		Conductor range (AWG or kcmil)				Conductor diameter (in.)				Dimensions (in.)			Bolt size (in.)
		Main		Tap		A		B					
	Cat. no.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	L	H	W	
Diagrams	XT12	4/0 str.	#1 str.	#2 str.	#6 sol.	0.528	0.328	0.292	0.162	1½	1 13/16	1½	5/16
	XT13			4/0 str.	#1 str.	0.528	0.328	0.528	0.328	1 7/8	2	1 7/8	3/8
	XT21	500	250	#2 str.	#6 sol.	0.813	0.574	0.292	0.162	2 1/16	2 3/16	1 5/8	3/8
	XT22			4/0 str.	#1 str.	0.813	0.574	0.528	0.328	2 1/8	2 3/16	2 7/8	3/8
	XT23*			500	250	0.813	0.574	0.813	0.574	2 1/8	2 3/16	2 1/26	3/8
	XT33*	1000	500	500	250	1.152	0.811	0.813	0.574	2 1/4	3	2 15/16	3/8
	XT34*			1000	500	1.152	.811	1.152	0.811	2 11/16	3 1/8	2 11/16	7/16

* 4-bolt clamps

Note: For tin-plating option, add "-P" suffix to the catalog number.

Clamp connectors

DLC™ single U-bolt aluminum fittings

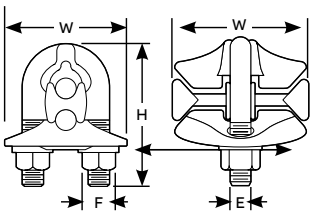


DLC2106

Deadend loop connections.

- Top and bottom pressure pads cast of high-strength, heat-treated, aluminum-silicon alloy
- Hardware made of galvanized steel provides added strength and durability

DLC SINGLE U-BOLT ALUMINUM FITTINGS

		Conductor range (AWG or kcmil)				Conductor diameter (in.)								
		ACSR		AWG or kcmil		A		B		Dimensions (in.)				
	Cat. no.	Main	Tap	Main	Tap	Max.	Min.	Max.	Min.	W	L	H	F	E
Diagrams	DLC2106*	2/0–#6	2/0–#6	2/0 str.–#6 sol.	2/0 str.–#6 sol.	0.447	0.162	0.447	0.162	1 7/8	1 1/2	3 1/4	9/16	3/8
	DLC23*	4/0–#1, #2–#6 AR	4/0–1/0	266.8– 1/0 str.	266.8– 1/0 str.	0.563	0.368	0.609	0.368	2 3/8	2 7/8	4	3/4	1/2
	DLC25	336.4–1/0, 1/0–#6 AR	336.4–1/0, 1/0–#6 AR	397.5–1/0 str.	397.5–1/0 str.	0.684	0.368	0.743	0.368	2 3/8	3 3/16	4	3/4	1/2

* RUS accepted. AR – with armor rod.
Note: For oxide-inhibitor option with aluminum-to-copper applications, add "-9" suffix to the catalog number.

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US
ABB Installation Products
Electrification business
860 Ridge Lake Blvd.
Memphis, TN 38120
+1 901-252-5000

electrification.us.abb.com

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